



El futuro  
es de todos

Minenergía

# COLOMBIA

## MINING DIVERSITY



AGENCIA NACIONAL DE  
**MINERÍA**

March 2022

# MINING SECTOR INSTITUTIONAL FRAMEWORK IN COLOMBIA



Responsible for the  
National Mining Policy

## Vice Ministry of Mines



Mining Authority and  
Mining Resources Manager



Sectoral Planning and  
Market Monitoring



Geological Knowledge  
and Monitoring of  
Geological Threats



Delegated mining  
authority in the  
province of Antioquia



El futuro  
es de todos

Minenergía

# MINING IN COLOMBIA



# ABOUT THE National Mining Agency

## Main functions

Article 4 Decree 4134 / 2011

- **Management** of national mineral resources.
- **Hold, manage** and audit concession and mining rights for exploration and development of minerals.
- **Management** of the national mining registry.
- **Calculate, collect, manage and transfer** royalties and compensations.
- **Promote and encourage** development of mining.

## Regional presence



### Mining safety and rescue stations

- 1 ☆ Ubate    2 ☆ Amaga    3 ☆ Jamundi    4 ☆ Marmato  
5 ☆ Bucaramanga    6 ☆ Remedios    7 ☆ Cucuta    8 ☆ Nobsa



**1st country in LATAM and the Caribbean in the Fraser Institute's Investment Attractiveness Index and Best Practices Mineral Potential Index 2020\***

**3rd country in LATAM with a mineral resources and reserves standard**

**4th destiny in LATAM Doing Business (DB) in 2020**

**25 TSX / TSXV companies in 2022**

**19 investment agreements, 16 commerce agreements and 12 double tax agreements**

**Member of the OCDE since May 2018**

**Exporter in LATAM N°:**  
 1<sup>st</sup> of coal and emeralds  
 4<sup>th</sup> of gold and ferronickel  
 6<sup>th</sup> of copper

\*Fraser Institute Annual Survey of Mining Companies 2020  
 GDP, exports and employment. Source: DANE  
 FDI. Source: Central Bank of Colombia 03/03/2022  
 Royalties' preliminary data. Source: NMA report Mapa Regalias, DNP as of 28/02/2022  
 Exploration budget MNF. Source: Cochilco based on S&P Global 2020/2021

# 2021



**1.3%**  
Of Colombia's GDP



**24%**  
Of exports



**179k**  
Direct employees



**USD586M**  
Of royalties



**11%**  
Of the Foreign Direct Investment



**5%** Of LATAM's non-ferrous metals exploration budget

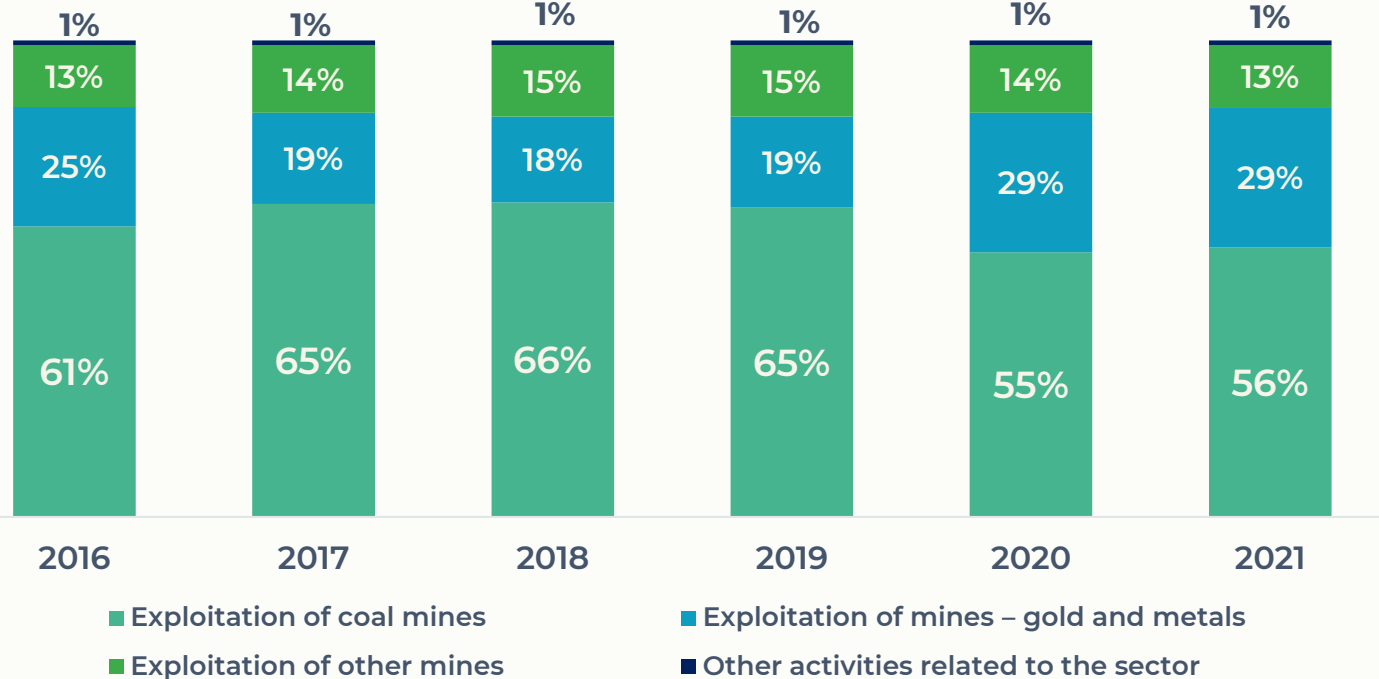


# Mining contributed

## 1.3% of the GDP 2021

Coal ranked first in mining GDP, with **56%**. Gold and metals ranked second, with **29%**

### GDP mining sector

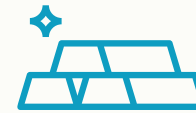


**USD 7,721 M**  
mining exports 2021

**24%**  
of Colombia's exports



**58%**  
Coal



**33%**  
Gold and precious metals



**5%**  
Ferronickel



**3%**  
Other minerals

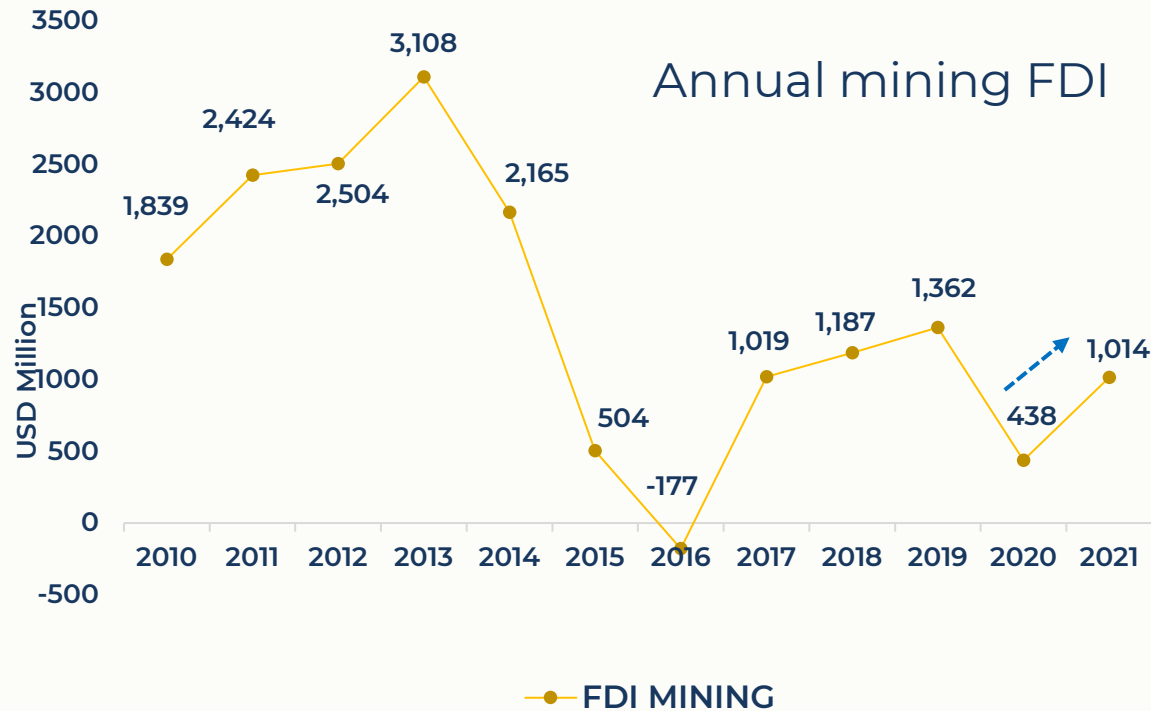


**1%**  
Emeralds



# Foreign direct investment in mining

1.3%



In 2021, mining sector accounted for **11%** of the total FDI in Colombia, reaching

**USD 1,014 Million**

Global Nonferrous Exploration Budget 2021  
**USD 11.2 billion**

**24% LATAM**  
with more than USD 2.65 billion



**55% of Budget**  
destined to gold exploration



**28% of Budget**  
destined to copper and base metals exploration

In 2021, Colombia accounted for **5%** or more than **USD 130 million** of LATAM's nonferrous exploration budget



El futuro  
es de todos

Minenergía

# POTENTIAL MINERAL





# KNOWLEDGE OF SUBSOIL



73%

GEOLOGICAL



70%

GEOPHYSICAL

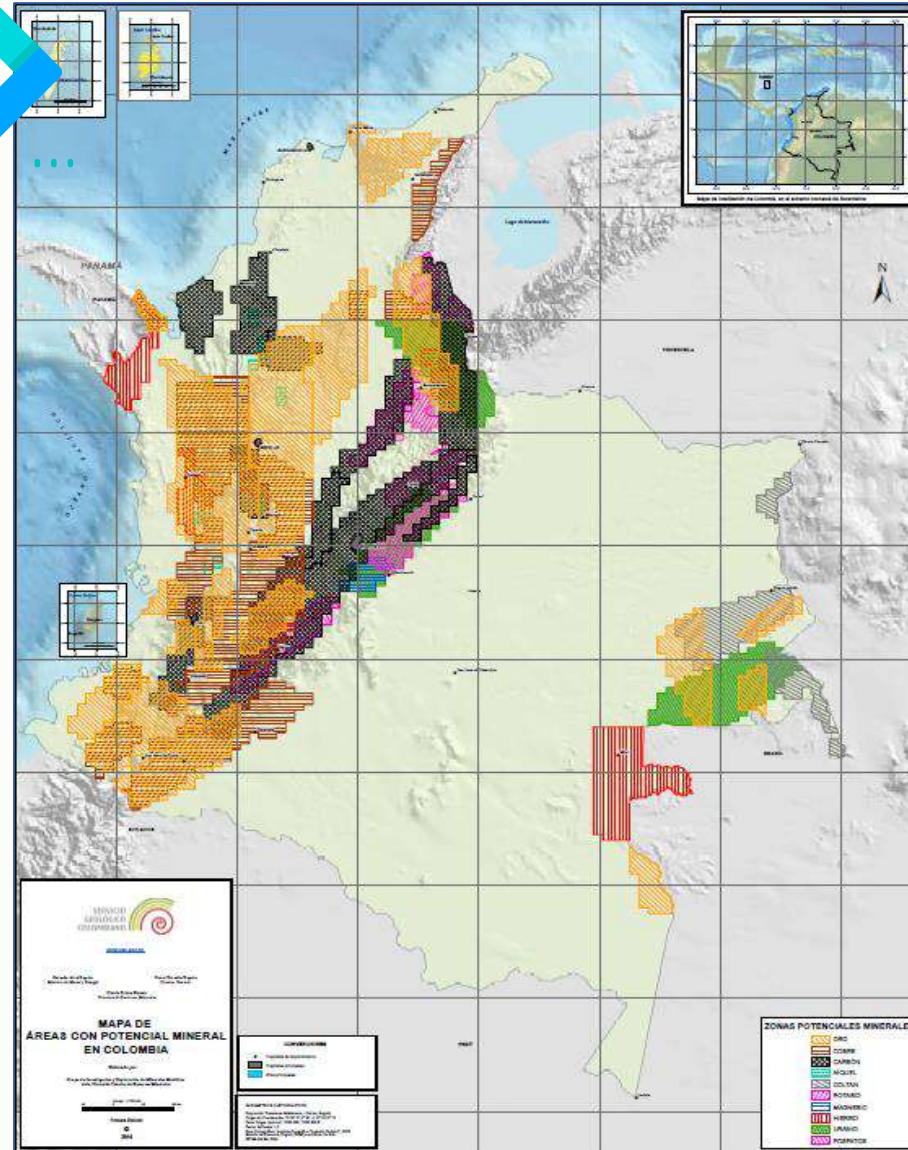


36%

GEOCHEMICAL

## Focus

- Increase mineral production.
- Diversifying the mining production matrix -“copper and phosphates”.
- Raising the levels of formality of mining activity with the best practices of informal economies.



El futuro es de todos

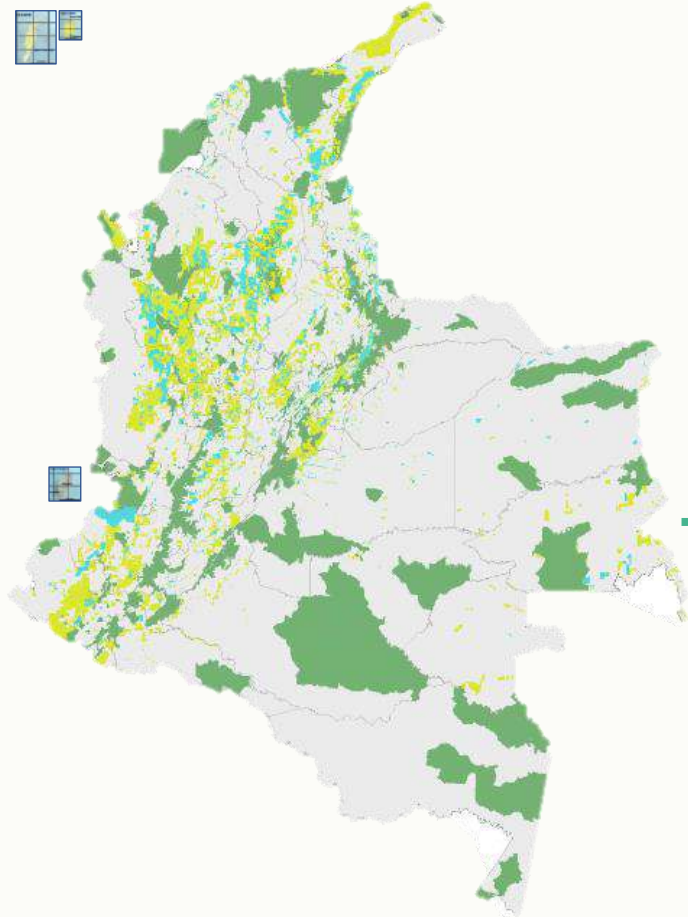
Minenergía





# A country to explore

“Mining activity in the **2.85%** of the territory”  
“Colombia has territory susceptible to exploration”



### By contractual stage:

(Exploitation: 82.13%, Exploration: 13.57%,  
Construction and assembly: 4.29% and  
Advance technical evaluation 0.01%)

**2.85%**

Of the territory

**6.21%**

Of the territory

**Titled area**  
**3,258,751 ha**

**Request area**  
**7,090,659 ha**

**7,200**  
Mining titles

**8,336**  
Applications

### Mining titles Applications



Construction materials

**46%**

**34%**



Gold and precious metals

**29%**

**44%**



Coal

**13%**

**9%**



Other minerals

**8%**

**6%**



Emeralds

**3%**

**5%**



Copper

**1%**

**2%**



Continental area:  
**114,174,800 ha**

**20%**

Excludable areas  
22,940,138 ha





El futuro  
es de todos

Minenergía

# GOLD

AND PRECIOUS METALS  
MINING ACTIVITY



**GOLD**  
ROUTE  
POTENCIAL MINERO  
DE COLOMBIA



# “Four new gold projects began production in 2018/2020”



## 2,069 Titles

1.75% of national territory  
(1,996,227 ha)



## 3,636 Applications

4.50% of national territory  
(5,134,187 ha)



## Production

	2019	2020	2021 <sup>Pr</sup>
<b>Gold</b>			
	38.01 Ton	48.56 Ton	49.89 Ton
<b>Silver</b>			
	14.48 Ton	19.95 Ton	23.49 Ton
<b>Platinum</b>			
	177.95 Kg	413.99 Kg	617.87 Kg



Newmont



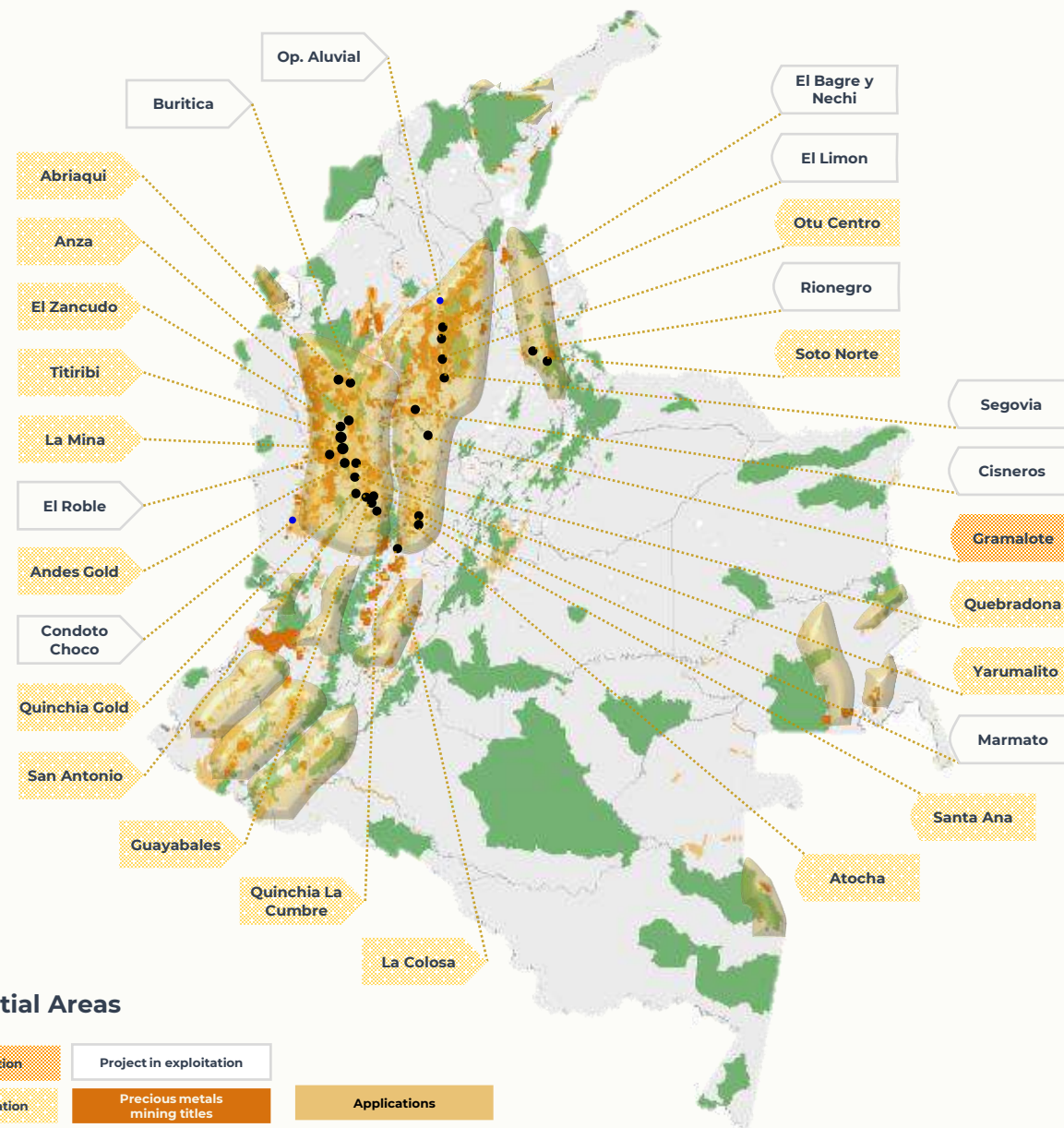
GOLDMINING





Gold deposits are clustered in districts associated with metallogenic belts in the provinces of **Antioquia, Santander, Tolima, Huila, Caldas, Nariño, Cauca and Bolivar**. Deposits are also found along the Pacific coast, which are formed by the erosion of the western branches of the Andes mountain chain. With an average tenor between **0.7 g/t y 10.4 g/t Au** in probable reserves.


Much of Colombia's platinum comes from alluvial deposits, which are mostly located in the province of Choco.

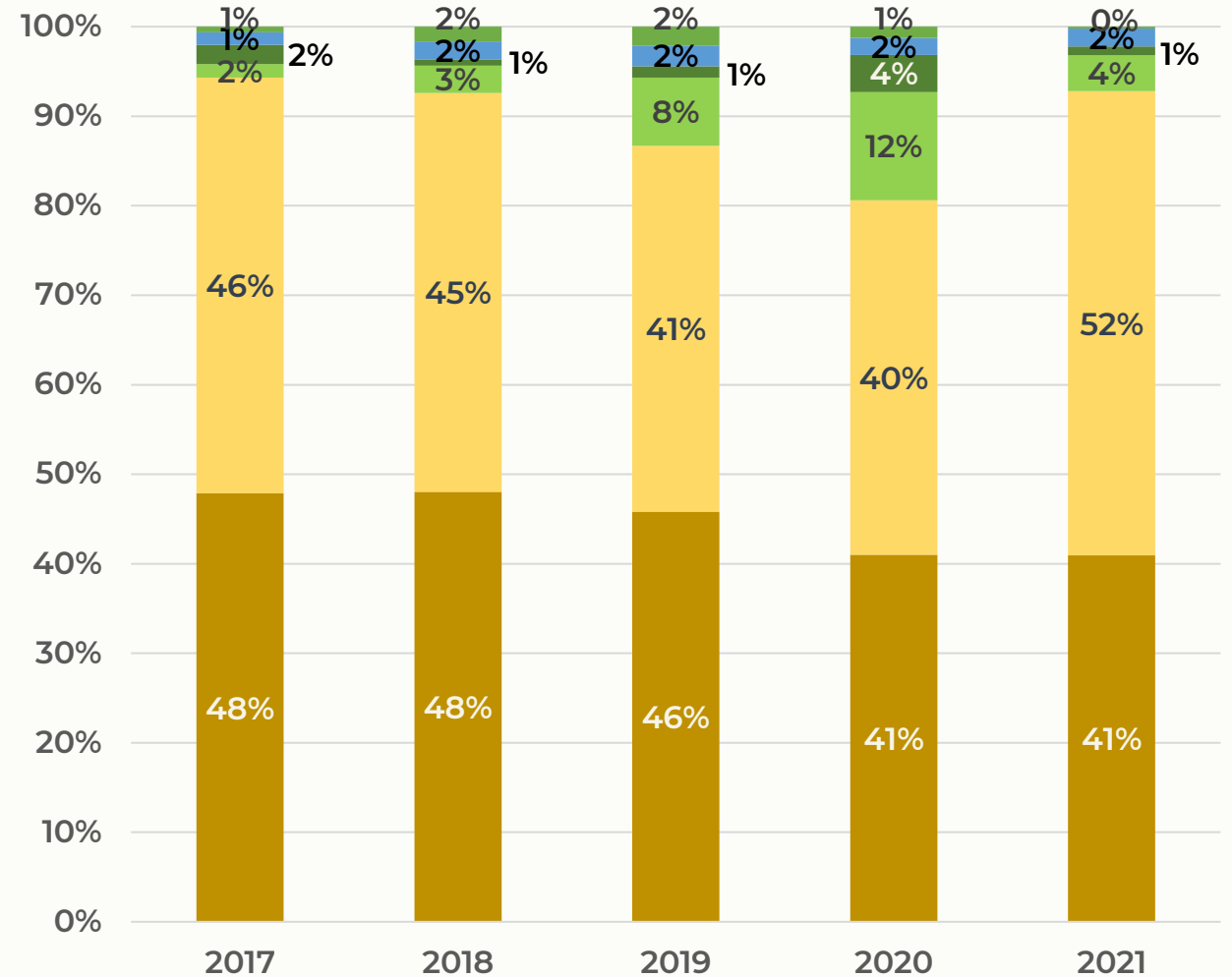




## Gold production by type of authorized mine operator

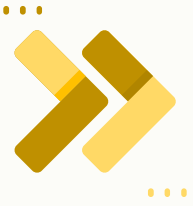
 **41%**  
Mining title

 **59%**  
of gold production in Colombia comes from small-scale mining



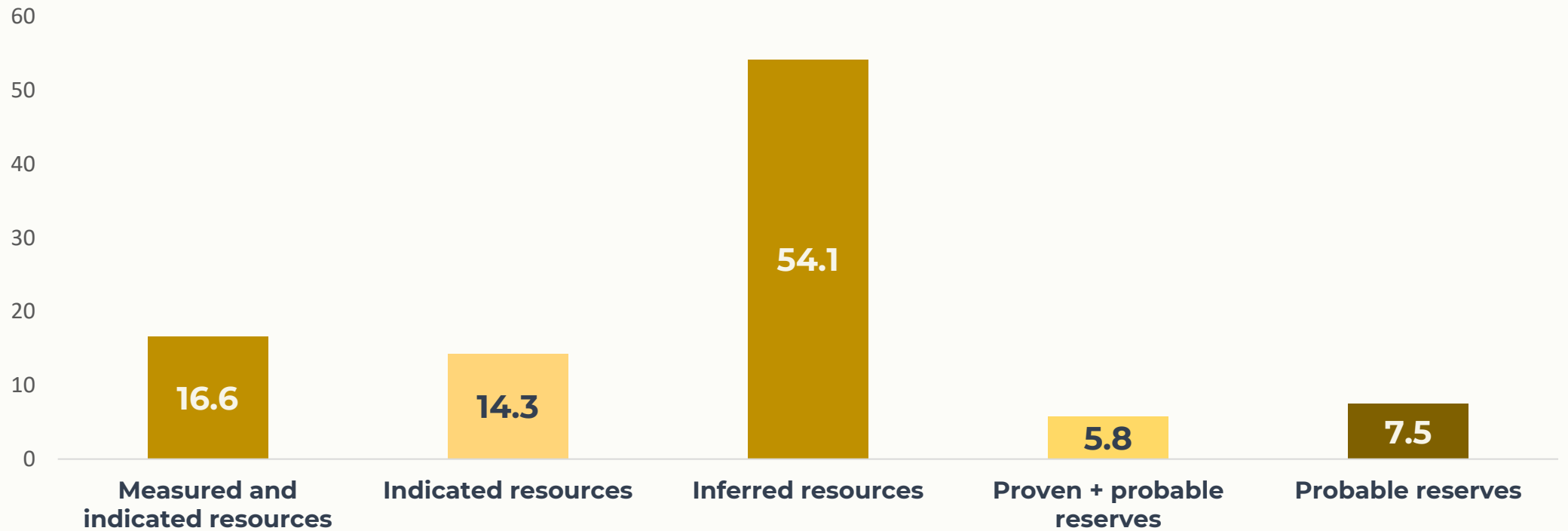
- Mining title
- Barequeros
- Formalization subcontracts
- Applications for legalization
- Special Reservation areas
- Scrap metal





# GOLD MINERAL RESOURCES AND RESERVES

Mineral resources and reserves in **17 main gold projects** according to International Information Standards (**Moz**)



Source: Resources and reserves projects reports including Buritica, Cisneros, El Roble, Gramalote, La Colosa, La Mina, Marmato, Op. Aluvial, Op. Subterranea, Quebradona, Quinchia, Quinchia Gold, San Matias, Segovia, Soto Norte, Titiribi and Yarumalito projects. Calculation NMA June 2020.





# Gold production is expected to continue to increase in the **next few years**

## Gold projects with an approved environmental license



**2024\* – Gramalote**  
0.85 g/t Au – Indicated 78.2 Mt  
2.14 Moz Au

## Pipeline of projects



**2025\* – Quinchia Gold**  
3.3 g/t Au, 2.8 g/t Ag  
0.46 Moz Au



**2025\* – Santa Ana**  
Recently discovered vein outcrop and float that assay up to **4.7 g/t Au** and **5,242 g/t Ag**



**2025\* – San Matias**  
0.29 g/t Au, 0.51% Cu, 2.7 g/t Ag  
0,89 Moz Au



**2024\* – Quinchia La Cumbre**  
0.71 g/t Au, 1.76 g/t Ag  
0.57 Moz Au



**2025\* – Quebradona**  
0,66 g/t Au, 7.05 g/t Ag, 1.21% Cu  
2.22 Moz Au



**2025\* – Anza**  
Best intercepts to date include 15 m of **40 g/t Au** and 41 m of **14 g/t Au**; Zn, Pb y Cu

## Investments 2017 / 2021







El futuro  
es de todos

Minenergía

# COPPER

## MINING ACTIVITY.



# In Colombia, deposits with an average tenor between **1.25%** and **2.51%** Cu in Probable Reserves are explored and exploited



**1,073 Titles**

0.91% of national territory  
(1,035,892 ha)



**1,439 Applications**

2.42% of national territory  
(2,765,486 ha)



## Production

	2019	2020	2021 <sup>Pr</sup>
Production	7,644 Ton	9,372 Ton	8,194 Ton





## Colombia has **three (3) copper belts** where important prospects can be found:

### ● **Central**

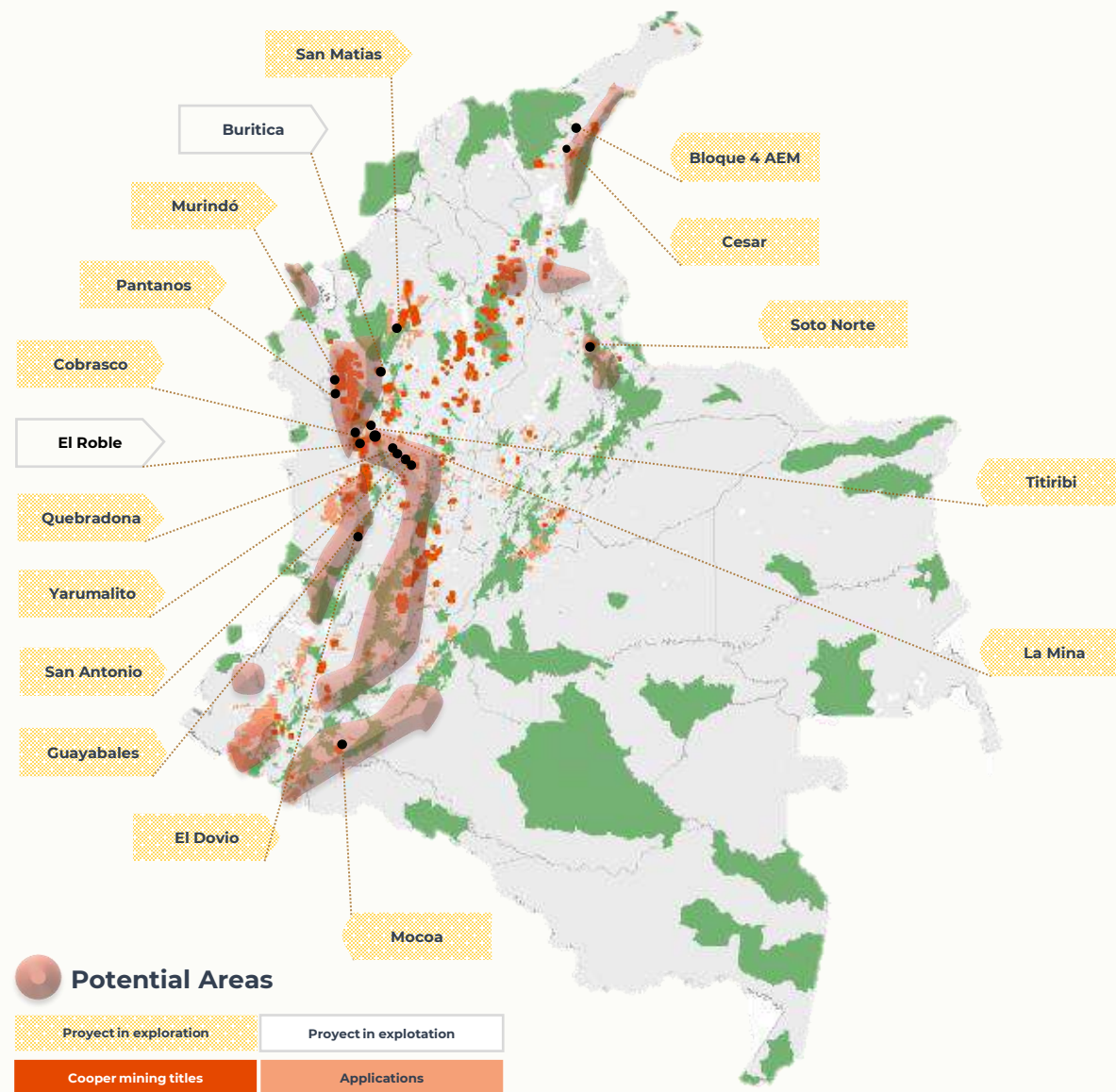
Quebradona, El Pisco, Piedrasentada-Dominical y Mazamoras

### ● **Western**

Acandí, Murindó, Pantanos-Pegadorcito, Andágueda y Piedrancha

### ● **Eastern**

Andes, Infierno-Chili, Dolores y Mocoa

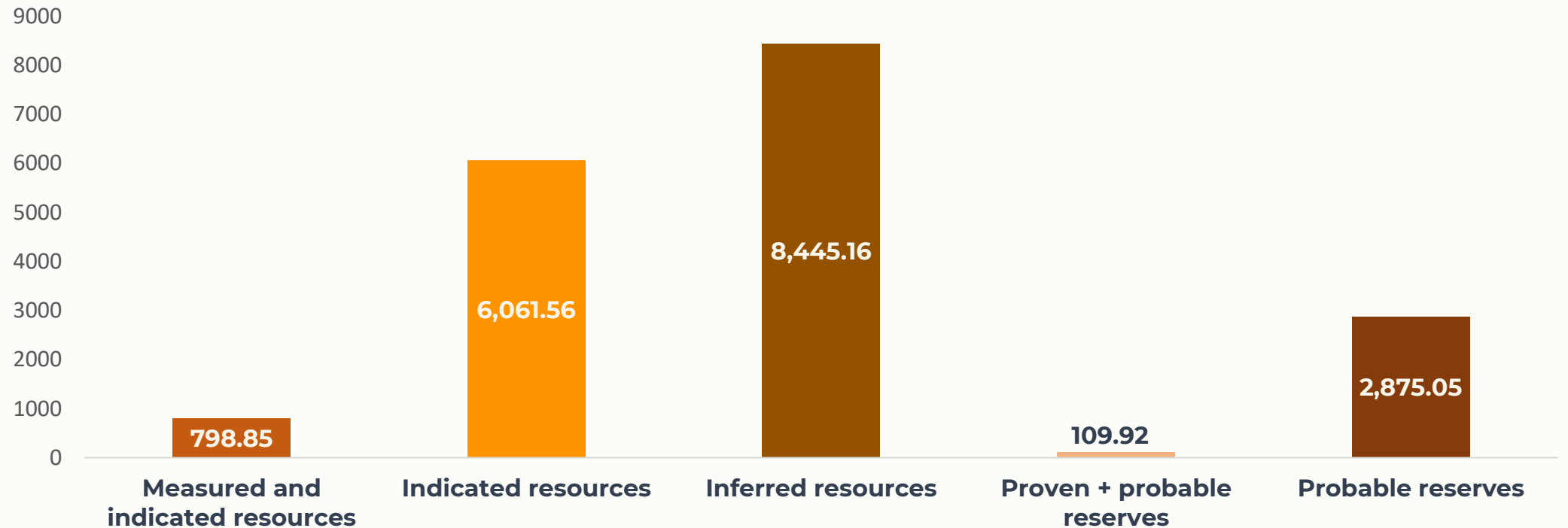


Source: <https://www.loscerros.com.au/site/PDF/f9fedd30-8b4e-4df8-bddb-b3ee3aa775df/MergerPresentation>, Figure: Earthquake Hypocentres & Benioff Zone Contours.



# COPPER MINERAL RESOURCES AND RESERVES

Mineral resources and reserves in **9 main copper projects** according to International Information Standards (Mlbs)



*Resources and reserves projects reports including El Roble, Quebradona, San Matías, Soto Norte, La Mina, Titiribi, Yarumalito, Mocoa y Cauca. Calculation NMA June 2020.*



# Copper production expected to increase over the next 5 years

## Copper project in exploitation



### El Roble

Proven + Probable reserves 1.00 Mt 3.02% Cu, 1.76 g/t Au  
Measured + Indicated resources 1.17 Mt 3.26% Cu, 2.33 g/t Au  
84.3 Mlb Cu



### Buritica

Production of copper concentrates started in 2021



## Pipeline of projects



2025\* – Quebradona  
Probable reserves 104.05 Mt\*  
1.21% Cu, 0.66 g/t Au, 7.05 g/t Ag  
2,769 Mlb Cu



2025\* – Titiribi  
Measured + indicated resources 285.8 Mt  
0.16% Cu, 0.50 g/t Au  
654.4 Mlb Cu



2029\* – Mocoa  
Inferred resources 636 Mt  
0.33% Cu, 0.036% Mo  
4.6 Blb Cu



2025\* – Cesar  
Highlight values of 34,4% Cu  
and 205 g/t Ag in samples



2025\* – San Matias  
Indicated resources 114.3 Mt  
0.45% Cu, 0.26 g/t Au, 2.4 g/t Ag  
1,142.7 Mlb Cu



2027\* – La Mina  
Indicated resources 37 Mt  
0.24% Cu, 0.74 g/t Au, 1.77 g/t Ag  
150.2 Mlb Cu

## Investments 2017 / 2021





# Rail, road and port infrastructure



Source: <https://www.ani.gov.co/proyectos-de-infraestructura-carreteras>

## Roads

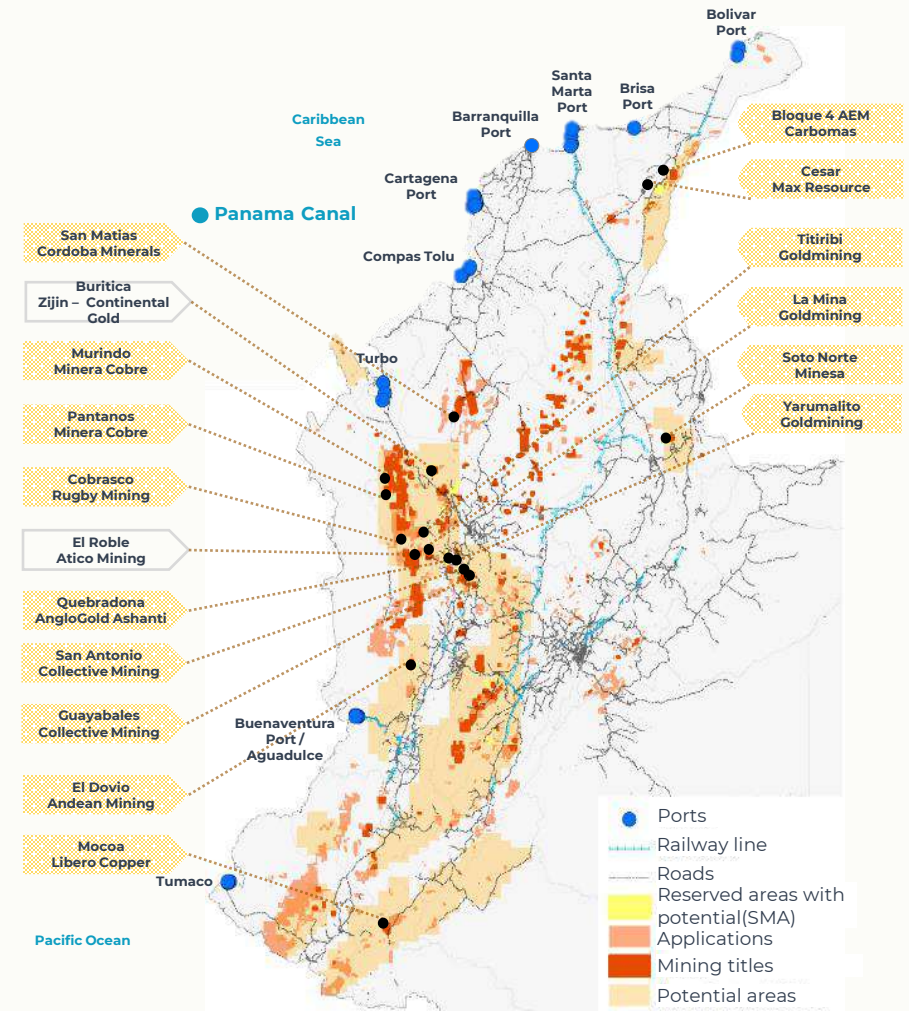
Fourth Generation (4G) public-private partnership infrastructure program have an estimated period of 25 years.

The 4G program estimates USD 17 billion investment to build over 4,400 miles of new roads, 141 tunnels, and 1,300 viaducts.

Most of the road projects were designed to expand the country's transport system and include more than 30 primary road improvements and construction projects.

As of October 31, 2021, the 4G road projects are 60.73% complete.

Many planned concession projects will link main ports with major cities to augment the current state of cargo transportation and lower the relatively high costs of shipping goods over land.



Source: <https://www.ani.gov.co/24/11/2021>



# Electrical infrastructure

## National Development Plan 2018 - 2022

### “Energy Pact”

- Energy and mining development with environmental and productive responsibility
- Energy security for productive development



**TODAY**  
**17,349 MW**

**11.846 MW**  
Hydraulic  
(68%)

**5.326 MW**  
Thermal  
(31%)

**177 MW**  
No Unconventional  
(1%)

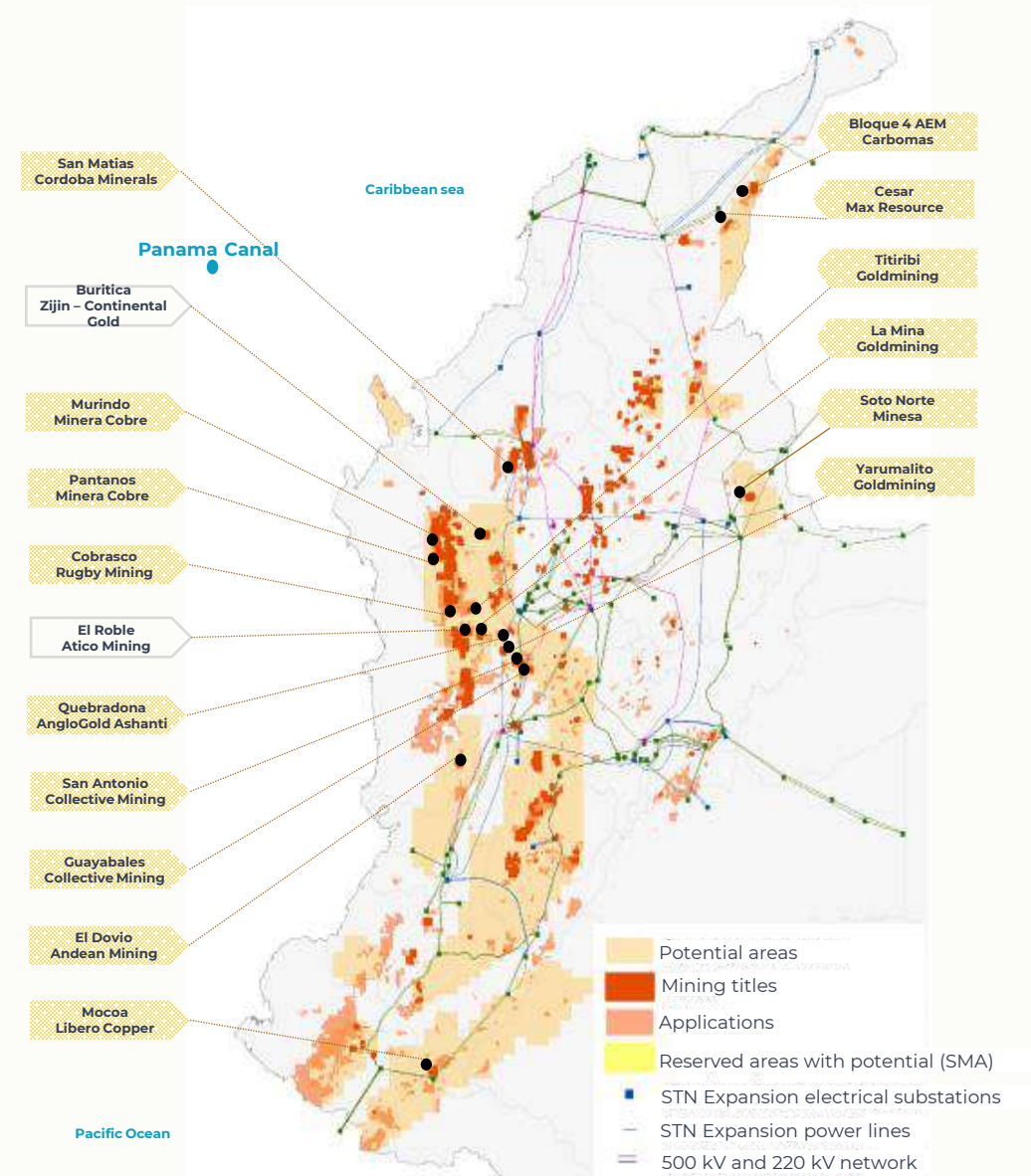


**52%**

The demand for energy in Colombia will increase by 2033

**10%**

Of energy must be unconventional in Colombia by 2033





El futuro  
es de todos

Minenergía

# COAL

## MINING ACTIVITY.







# “LATAM’s largest open pit coal mine ” Cerrejon

“Colombian coal production represents **77.8%** of Latin American production”

“Colombia produces high quality thermal coal due to its high calorific value: about **14,161 BTU**”



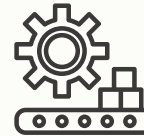
## 1,774 Titles

0.99% of national territory  
(1,125,163 ha)



## 795 Applications

0.48% of national territory  
(545,969 ha)



### Production

**2019**

85.3 Mton

**2020**

53.5 Mton

**2021<sup>Pr</sup>**

51.5 Mton

Thermal

**89%**

Metallurgical

**11%**

Open pit

**88%**

Underground

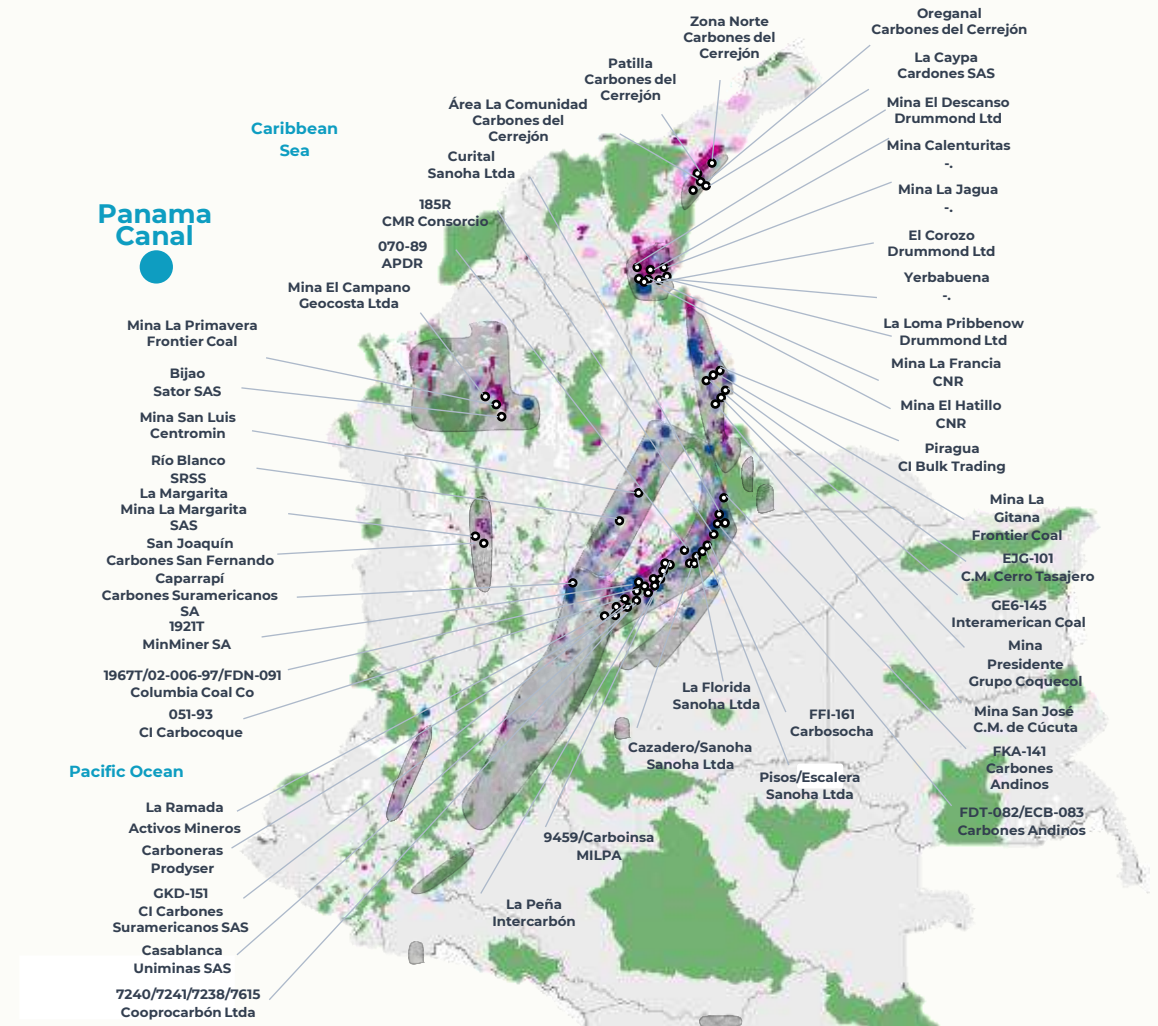
**12%**





Colombia is the world's **fifth largest exporter** of coal with low ash content and low sulfur dioxide emissions and one of the largest coal **proved reserves** of anthracitic and bituminous coal in Latin America with a share of **46.6% (4,554 million tons)\***

Colombia is the **world's third largest** coke exporter.





# Rail, road and port infrastructure

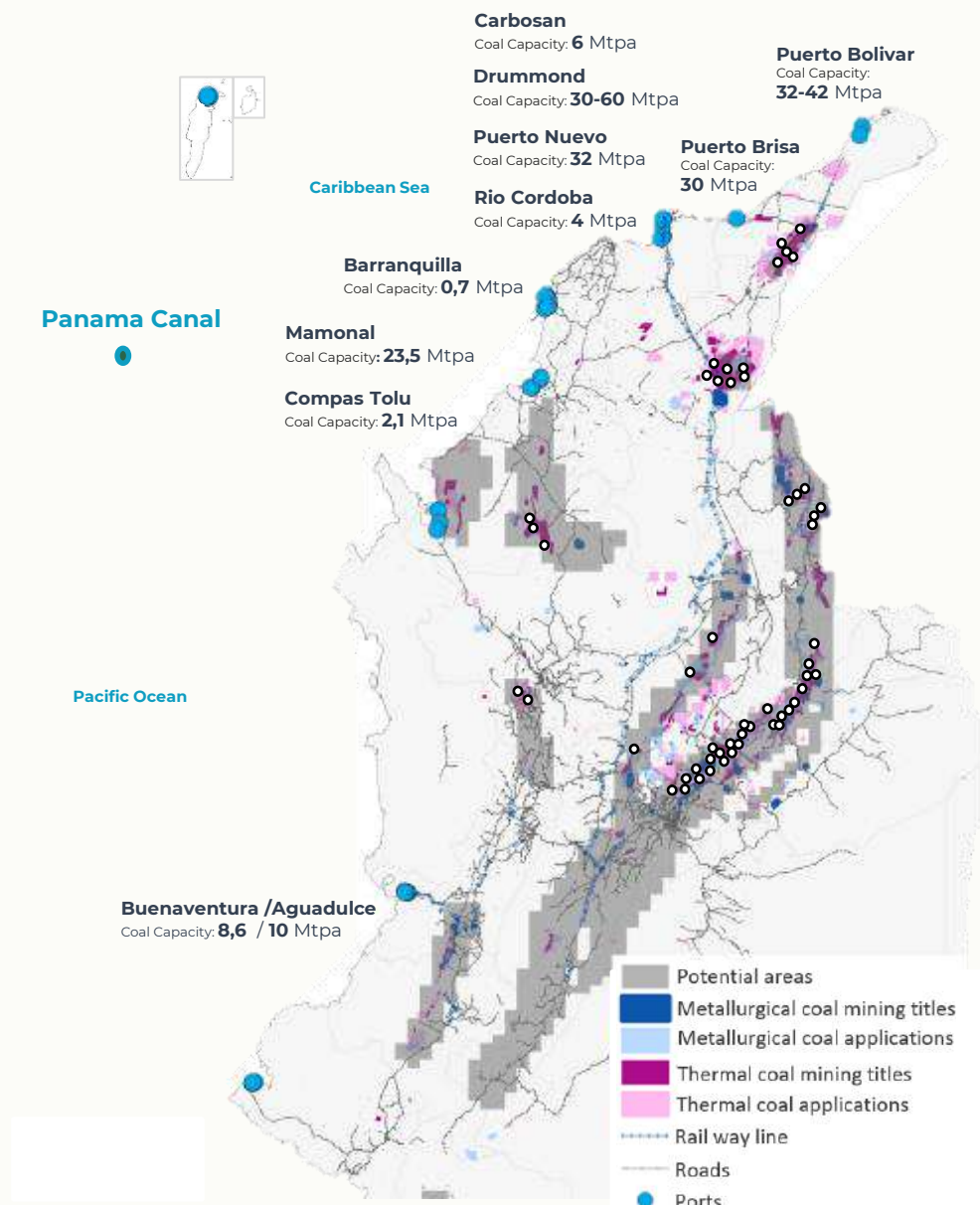
## Seaports

Port's capacity and cargo: **444 million tons** (Coal: **141.5 Mtpa**) in 8 port areas with 61 port concessions.

Port operators in Buenaventura (Pacific), Cartagena, and Santa Marta (Caribbean) made significant investments that have introduced more efficiency and competitiveness. New terminals in Puerto Bahía (Cartagena), Puerto de Aguadulce (Buenaventura), and Puerto Cayao (Cartagena) began operations in recent years.

## Rail

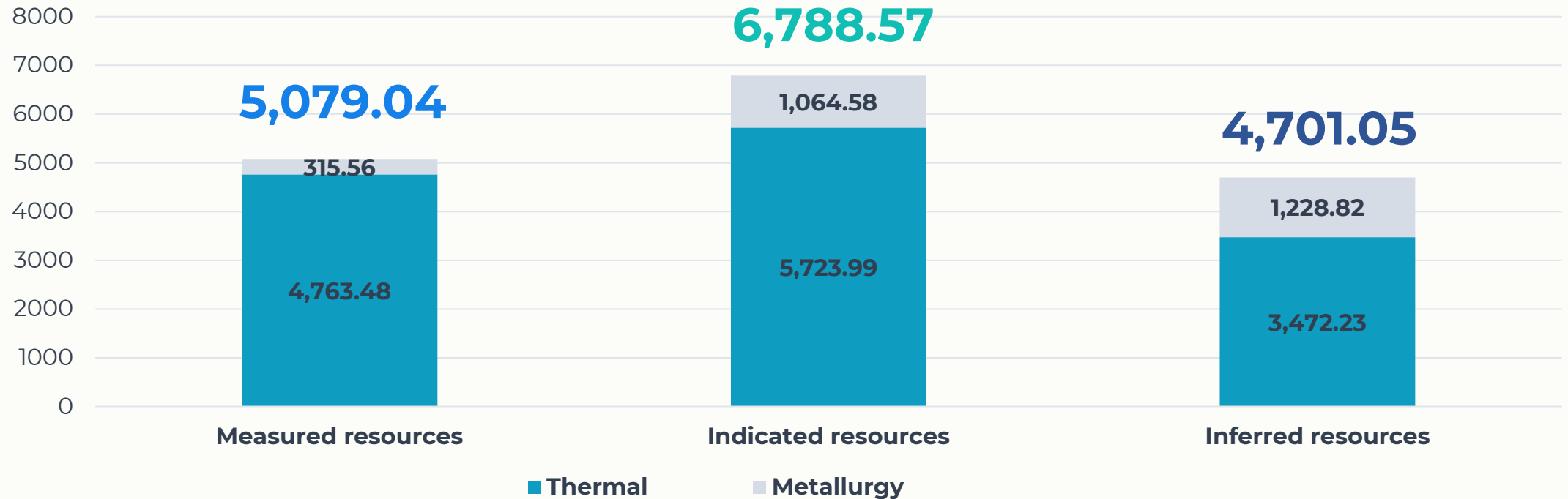
Colombia has **1,500 miles** of narrow-gauge railroad, which is divided into four different systems managed either by concessions. Two mining companies own the two standard gauge lines, which are mostly used to transport coal from the mine to the seaport for export.





# COAL MINERAL RESOURCES AND RESERVES

Mineral resources and reserves included in the **Colombia's Coal Potential map 2016** of the Colombian Geological Survey (MTon)





El futuro  
es de todos

Minenergía

# EMERALD

## MINING ACTIVITY.



# Hydrothermal sedimentary origin of the Colombian emeralds is unique in the world

Colombian emerald exploitation is carried out by underground operations



## 1,034 Titles

(0.58% of national territory)  
**(662,980 ha)**



## 456 Applications

(0.21% of national territory)  
**(236,661 ha)**



## Production

(Carats)

2019	2020	2021 <sup>Pr</sup>
<b>Unpolished</b>		
613,716	1,555,470	846,800
<b>Set</b>		
3	10	0
<b>Carved</b>		
151,885	47,744	80,045
<b>Other</b>		
1,013,519	3,117,799	1,939

**MUZO**  
EMERALD COLOMBIA



**FURA**

**GEMROCK**

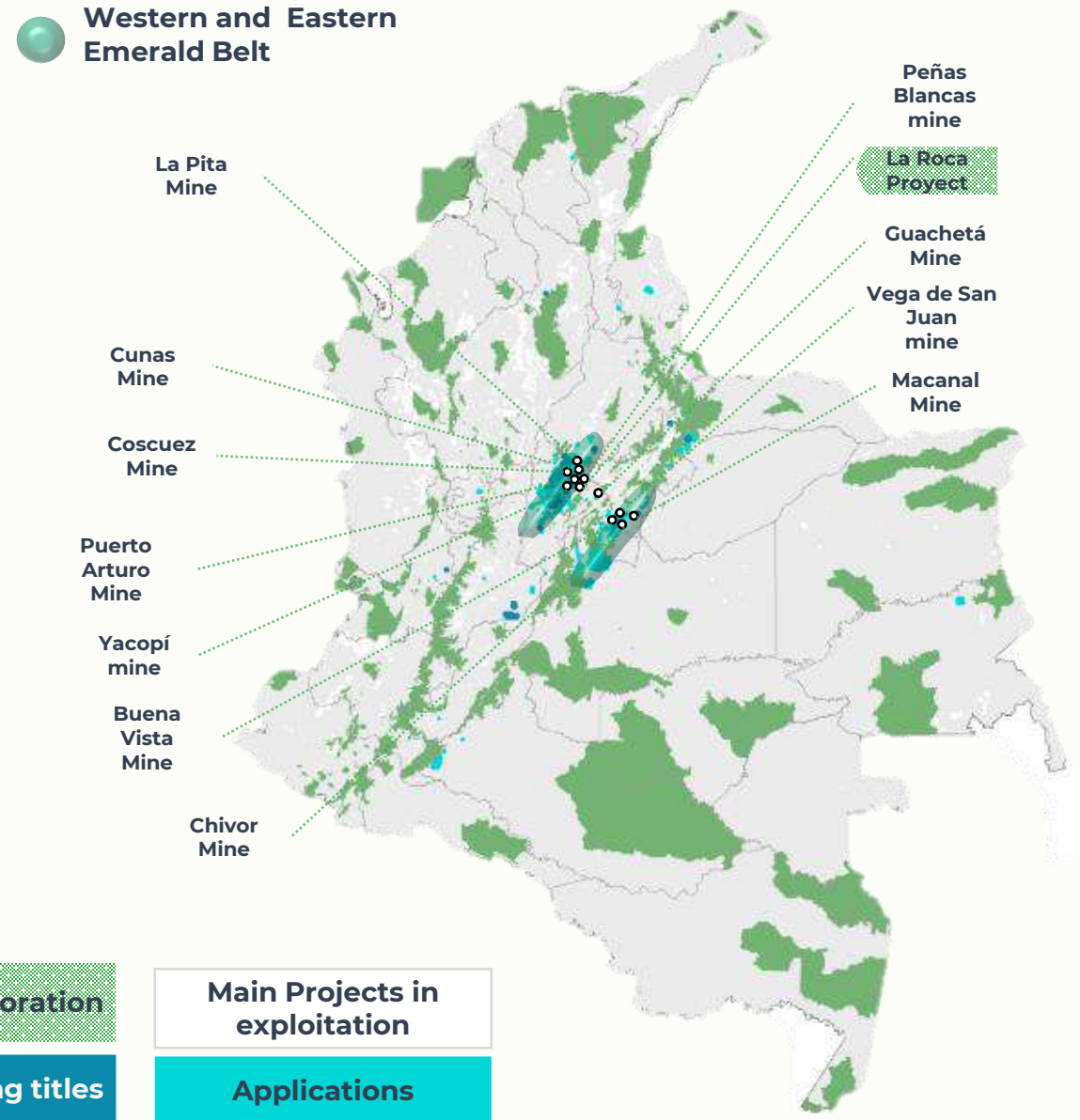
**ANDINO**  
COMMODITIES

**HEXA**  
RESOURCES





Colombian emeralds are **number one in the world for quality**, due to their hydrothermal sedimentary origin that gives them a brightness, transparency, color, play of lights and optimal hardness.





El futuro  
es de todos

Minenergía

# PHOSPHATE ROCK

## MINING ACTIVITY





“The production of Phosphate Rock or Phosphoric Rock is carried out in the departments of **Boyaca, Huila and Norte de Santander**, with more than **99%** destined for domestic consumption”



**830 Titles**

0.56% of national territory  
(638,579 ha)



**74 Solicitudes**

0.05% of national territory  
(55,468 ha)



**Production**

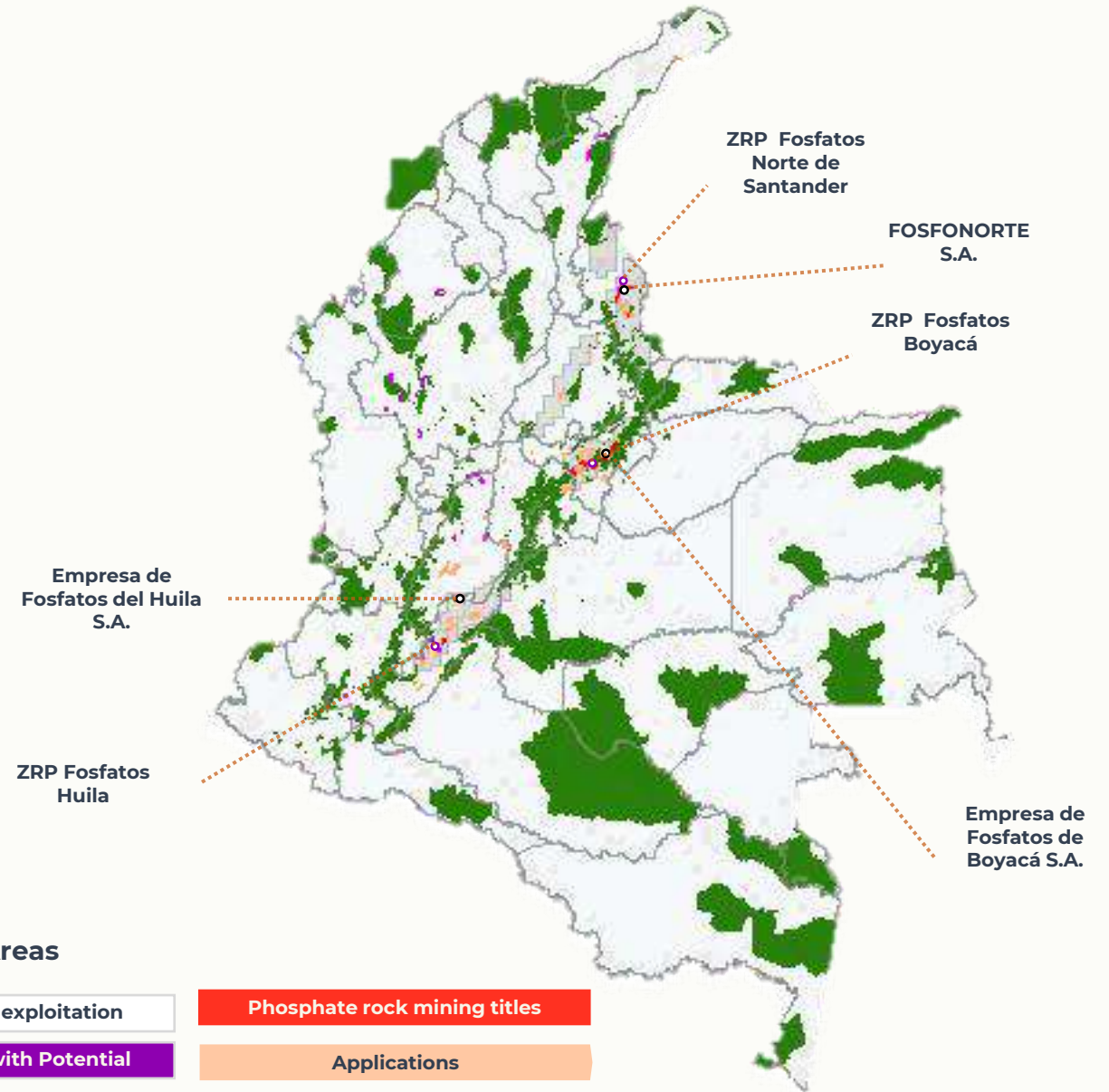
	2019	2020	2021 <sup>Pr</sup>
	81,903 Ton	56,846 Ton	37,866 Ton





**Phosphorite deposits** come from phosphoric sandstones contained in marine origin of Cretaceous age, belonging to the Ermitaño and La Luna Formations, and the Olini and Guadalupe Groups

**The P<sub>2</sub>O<sub>5</sub> (phosphorus oxide) content of these sandstones varies between 20% and 30%**





El futuro  
es de todos

Minenergía

# HOW TO INVEST IN **COLOMBIA**



## Three ways to obtain a **Mining Title**

### **Mining Contract**

**30 years** → renewable  
For **30 additional** years



Exploration



Construction and  
assembly



Exploitation

- **Public agreements with the municipality**
- **Public hearing with the community**

**1**

### **Application Process**

First-come - First-served

- Any mineral
- Any available area
- Any natural or legal person, Colombian national or foreigner
- General requirements

**2**

### **Negotiation of an existing title**

- Mineral rights can be freely transferred between investors
- Any mineral

**3**

### **Strategic Mining Reserve Areas**

- Areas awarded under a special exploration and exploitation contract through an **objective selection process**
- Strategic minerals



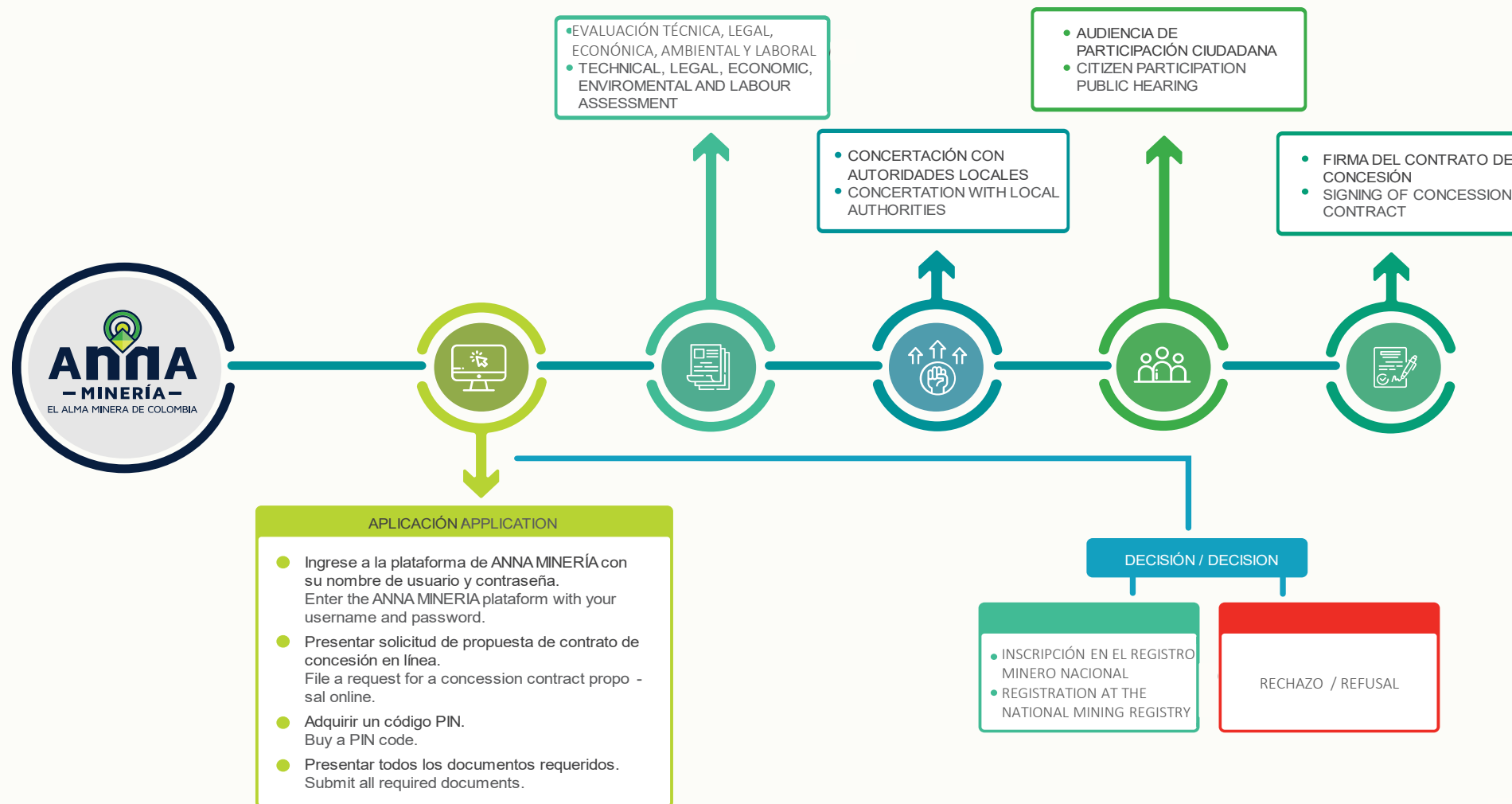


# Mining activity is regulated and controlled

Para aplicar a un contrato de concesión se adelantan los siguientes pasos

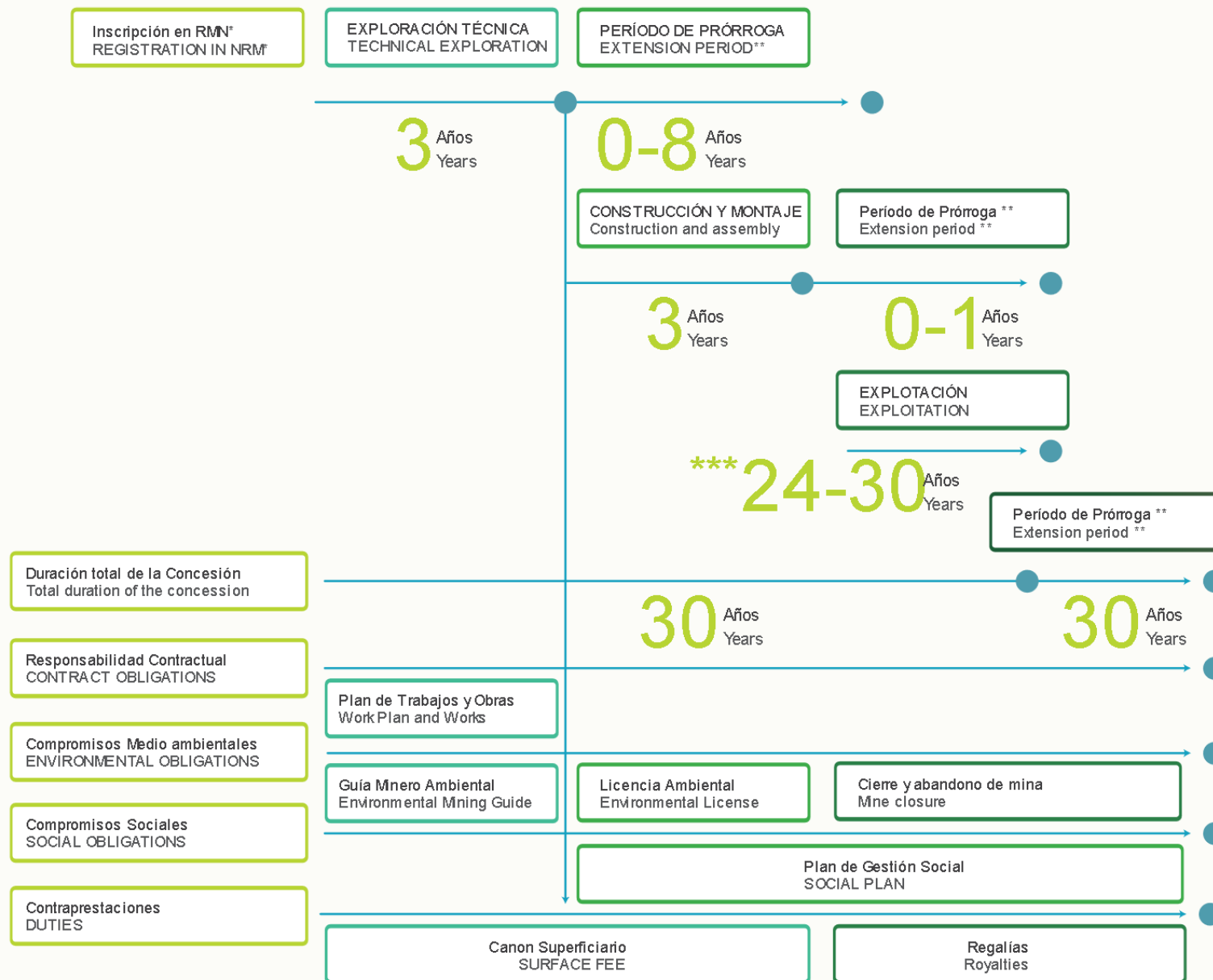
## Steps to apply for a concession contract

<https://annamineria.anm.gov.co>





# Mining contract duration



\*National Mining Registry

\*\*Prior assessment of the request by NMA.

\*\*\*Shall be shorter if the beneficiary applies for an extension during the Exploration and Construction and Assembly stages.



El futuro  
es de todos

Minenergía

# STRATEGIC MINING RESERVE AREAS



# Strategic Mining Reserve Areas

Selection process, started on March 2021



Areas awarded under a special **exploration and exploitation** contract through an objective selection process.



**They produce additional resources** for the Country and its territories, through economic compensation in addition to royalties



**Consolidated scenarios at the social and environmental level:** SMA's have a process of coordination and concurrence with local authorities and prior consultation with communities, as well as analysis of environmental information to facilitate licensing procedures.



A way to promote the promotion of **domestic and foreign investment.**



**Competitive contractual conditions** to boost mining exploration and exploitation.



Contributes to **mineral diversification** in Colombia.

<https://mineriaencolombia.anm.gov.co/contenido/areas-estrategicas-mineras>





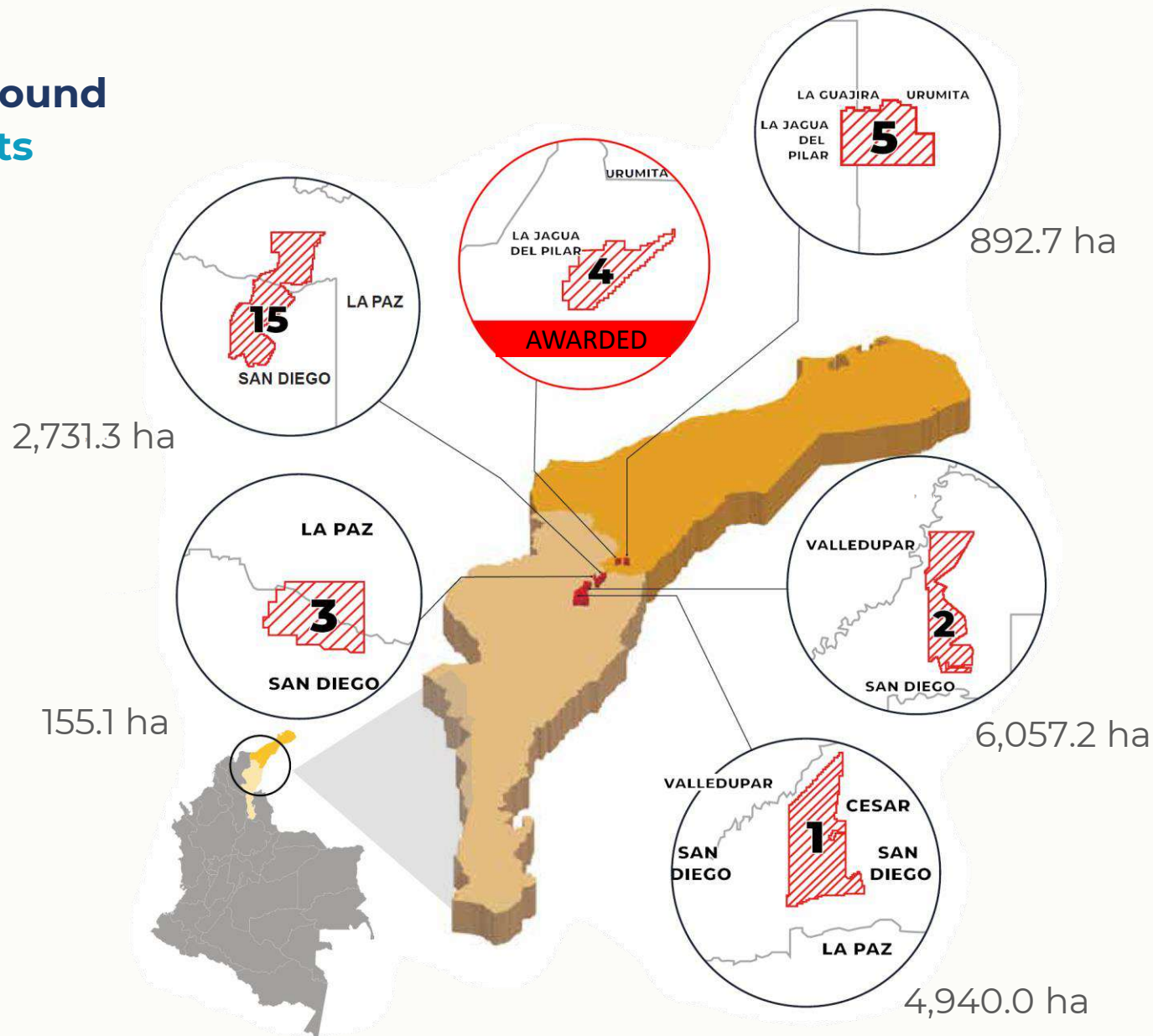
## Areas offered in 2021/22 mining round La Guajira and Cesar Departments

Six areas defined by the Colombian Geological Survey as having high potential for copper minerals

Block 4: **AWARDED**

By Resolution 000655  
June 21, 2021.  
CARBOMAS S.A.S.

By which the special exploration and exploitation contract for Block 4 is awarded, it was **signed** on September 14, 2021; and **registered** in the RMN on October 20, 2021.





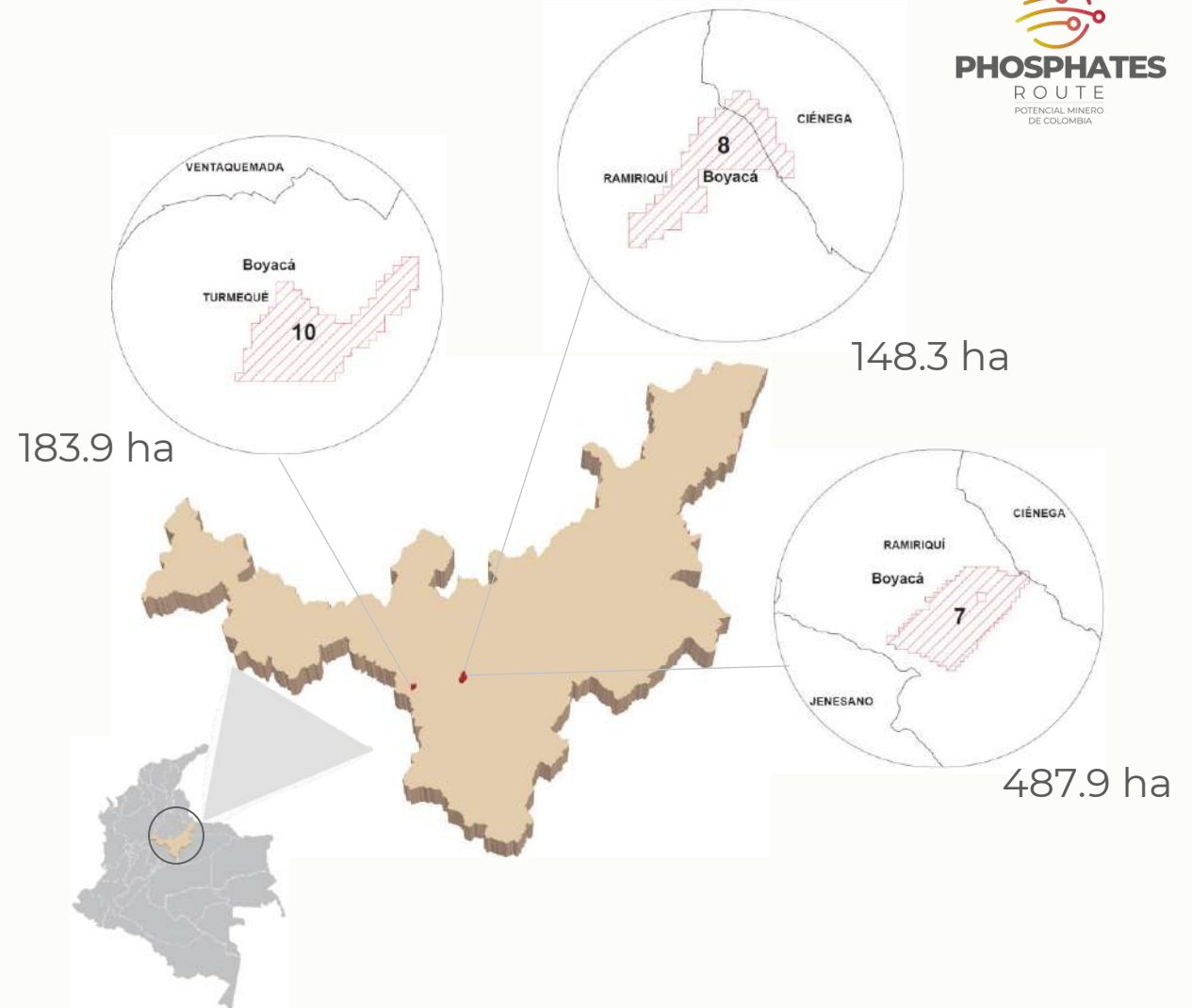
## Areas offered in the 2021/22 mining round

### ... Department of Boyaca

#### Areas defined by the Colombian Geological Service as having high phosphate mineral potential

The Colombian Geological Service - SGC evaluated the mining potential of phosphates in the area, identifying 3 areas of high mining potential for phosphates.

The National Mining Agency is advancing in the development of the permanent allocation of Strategic Mining Reserve Areas (AEM) with high potential through the mining rounds through a competitive process, for this, there are currently **4 blocks** with high potential for phosphates, located in the departments of **Boyaca and Huila**.





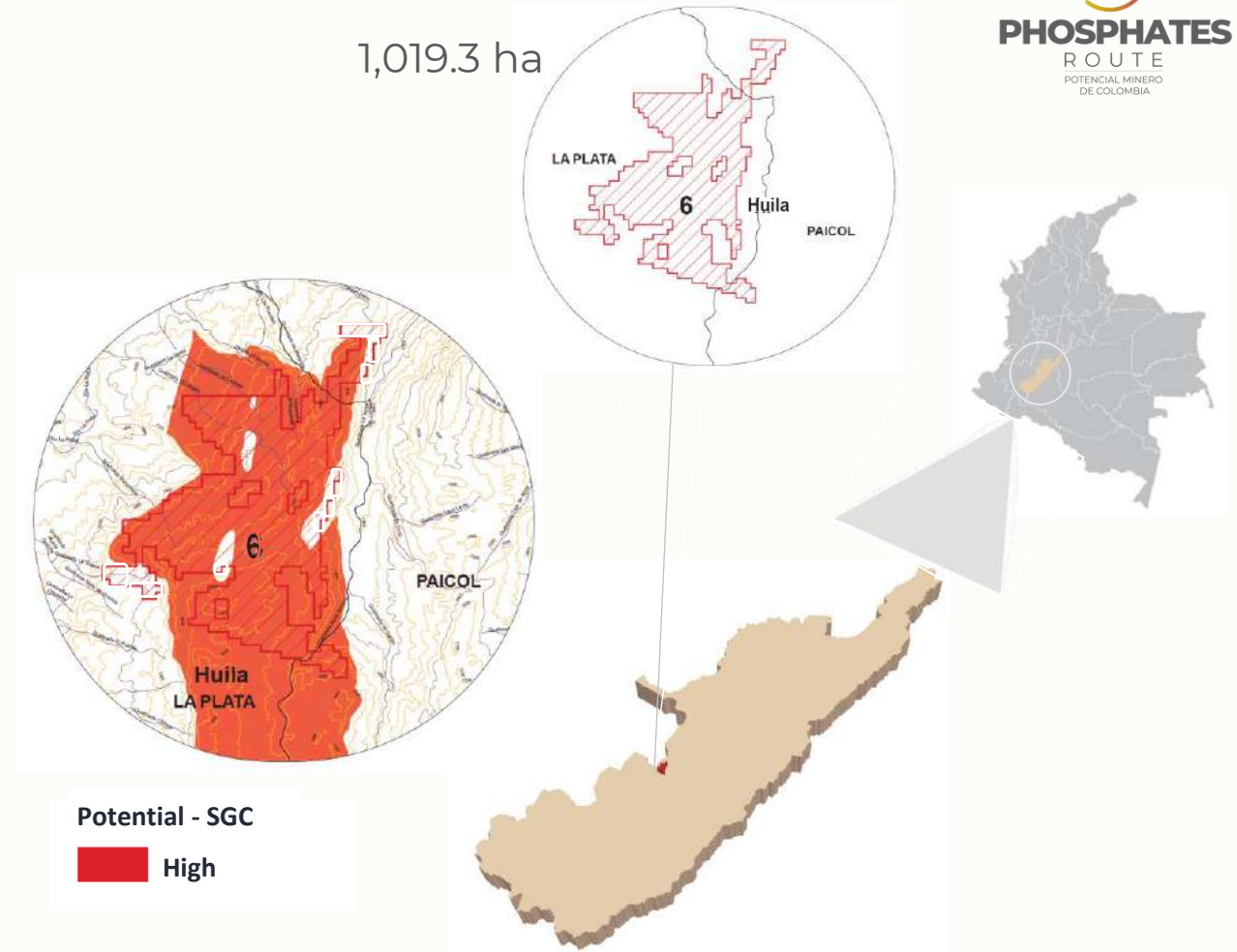
## Areas offered in the 2021/22 mining round

### Department of Huila



#### Areas defined by the Colombian Geological Service as having high phosphate mineral potential

The Colombian Geological Service - SGC evaluated the mining potential of phosphates in the area, identifying 1 area of high mining potential for phosphates.





# How have we advanced with Strategic Mining Areas (SMA)?

## PARALLEL STAGES

### Deepening of geological knowledge

### Reserve Areas with Potential

### Characterization of the territory

### Coordination and Concurrence

### Prior consultation and final delimitation

### SMA's objective selection process



Free areas with high potential available to investors.



Analysis of environmental information and baseline for EIA will facilitate licensing procedures.

Articulation with other policies (agriculture, infrastructure, victims, etc).



Articulation with local authorities; agreements on the development of mining activity in territories.



Certification of the presence of communities and prior consultations as a background for social processes.



Flexible, competitive and transparent process with established timelines.



# How can I participate in the Copper & Phosphate Route?



## 1. Qualify to participate in the selection processes

Investors will be able to qualify, and their registration will be valid for 1 year in order to be able to participate in the processes of desire.



### Legal capacity:

- Natural persons.
- National or foreign legal entities with a branch in Colombia.
- Foreign legal entities without a branch in Colombia.
- Plural Structures.



### Environmental capacity:

- Certification in adoption and implementation of accredited environmental management.
- May be certified to ISO 14001 or equivalent standards.



### Financial capacity

- Financial information.
- Liquidity, indebtedness and interest coverage ratio criteria will be evaluated.
- Restricted qualification (complies with legal and technical capacity but does not meet financial capacity indicators).



### Technical capacity (Type A, B and C):

- Participation in mineral exploration projects, handling all phases of exploration.
- Preparation of exploration results and resource estimation reports under any national or international standard.
- Execution of minimum drilling campaigns.



### Capacity in Corporate Social Responsibility:

- Certification in the adoption of good practices.
- Goals for economic and social development to achieve sustainable and inclusive development.
- May be certified with ISO 26000 standard

## 2. Submit a proposal in the selection process



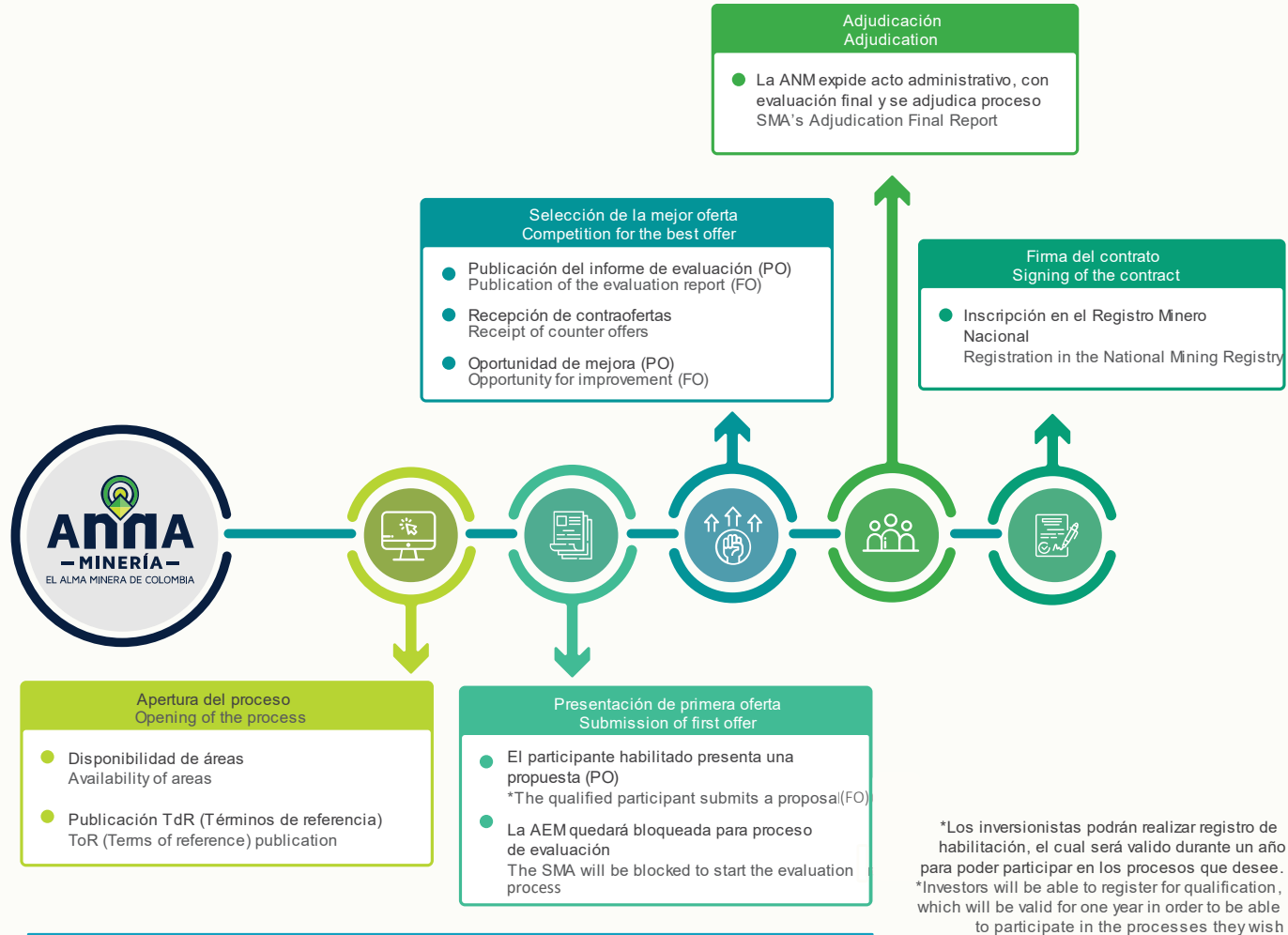
# Stages for the selection process



Para aplicar a las Áreas de Reserva Estratégica Minera se adelantan los siguientes pasos

## STEPS TO APPLY FOR STRATEGIC MINING RESERVE AREAS

<https://annamineria.anm.gov.co>



Información técnica disponible para estudio de los interesados  
Technical information available for study



## Coordination and concurrency process

“Central and regional governments **working for a sustainable and responsible mining** with communities”

- **Respect, protection, and guaranteed human rights**
- **Dialogue, communication and transparency**
- **The inexistence of prohibition**
- **Sustainable development**
- **Territorial focus**



Mining contracts granted in 2021



Of the titles granted in 2021 are for the extraction of **copper** and **gold** extraction



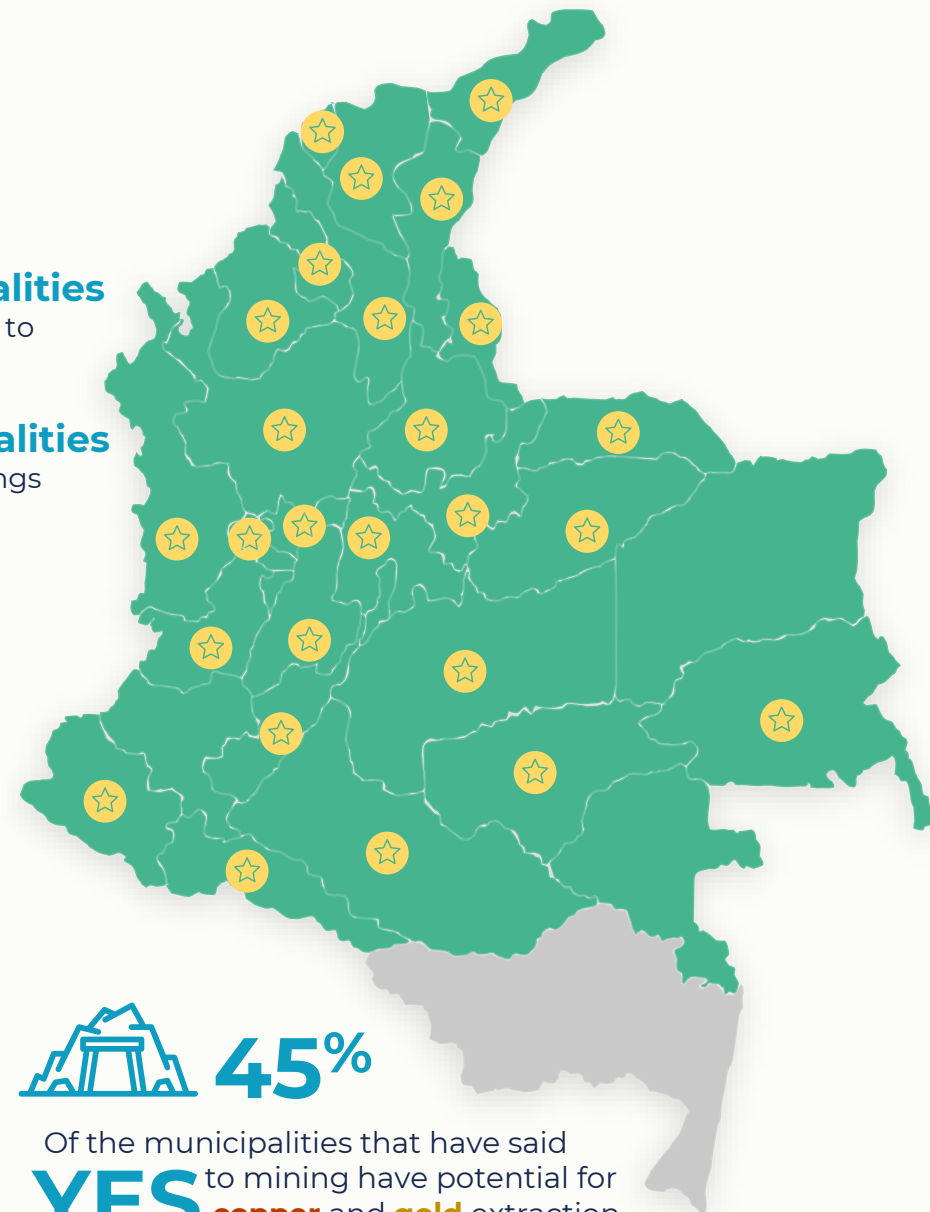
Of the hectares titled in 2021 are for the extraction of **copper** and **gold**



Of the municipalities that have said **YES** to mining have potential for **copper** and **gold** extraction

■ **444 Municipalities** that have said **yes** to mining

☆ **200 Municipalities** with public hearings





# Financial obligations

## Surface Fee

An economic compensation must be paid during the **exploration** and **construction and assembly** stages

NUMBER OF HECTARES	0 to 5 Years	More than 5 years up to 8 Years	More than 8 years up to 11 Years
	OMDW/ha		
0-150	0.5	0.75	1
151-5,000	0.75	1.25	2
5,001-10,000	1.0	1.75	2



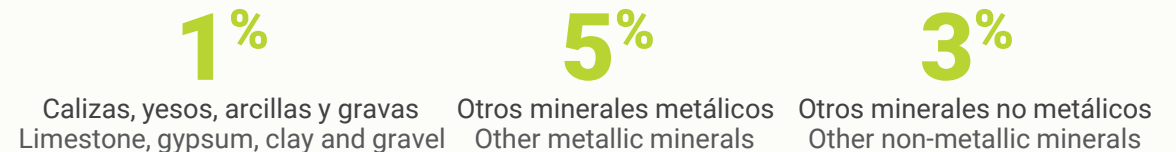
- OMDW: The official minimum daily wage in Colombia for year 2022 is COP 33,333.83
- Exchange rate USD/COP: 3,786.00 (Central Bank of Colombia 11-03-2022)

Note: for special mining exploration and exploitation contracts in Strategic Mining Reserve Areas, the surface fee is governed by the provisions of the Terms of Reference for each process.



## Regalías Royalties

**1-12%**  
del valor de la producción  
of production value







**PILLARS OF THE  
MINING SECTOR**



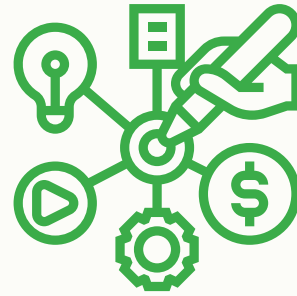
## Pillars of the mining sector



**Efficiency**



**Effectiveness**



**Diversifying**



**Demystifying**

Through **impact strategies**, to secure a sustainable and safe mining activity, creating opportunities and wealth for the country.



## Effectiveness Legality and presence in the territories



**97.5%**

Small and Medium - scale mining

### Support for our miners Mobile support



- Bringing technology-based tools to the region
- Resolve bottlenecks
- Legal support
- Technical and focalized security training



**2.5%**

Large - Scale Mining

### Audit prerogatives and mining titles

- Satellite images
- Online checking
- Drone-based auditing
- IoT setup

### Traceability system

To measure and calculate **transaction volumes** across the chain, as well as origins, of construction materials, emeralds, coal and gold.



# Demystifying 3 scenarios



1

## Forum Circuits

**Regional forums with universities and colleges (students of 10th and 11th grades)** for the last degrees on the successful experiences of well done mining. To generate with these groups information banks and research, laboratories from the academy in favor of new methodologies for the search of solutions in the environmental management and the construction of new businesses from the same mining products. Teachers and students are active in each of their territories

2

## Miners in Action

**Miners in action:** Large and small Mining Companies, supported by the ANM, would make visible their actions of social and environmental responsibility. As well as, the different economic activations that are developed in the region thanks to the mining sector. These good practices will be awarded every year and will have a microsite on the web.

3

## Young Miners

**Colombia's Young Miners :** is a **space for listening and generating teamwork** in order to make visible how mining can be developed with all the laws, creating content through social networks that show social responsibility, economic recovery of the mining territory.



# Diversifying - Economy boost



## Mining Rounds



**COPPER** · March 2021

1st mining round in Colombia - generate USD 25 - 30 million in operating investments



**PHOSPHATES** · October 2021

1st phosphate mining round (fertilizer)



**GOLD** · 2022

1st gold mining round



**COAL** · 2022

1st coal mining round



## Business Round-Tables



**GOLD**

2 rounds on gold projects (2020 - 2021)



**COAL**

6 rounds on coal business - Asia (2020 - 2021)



**COPPER**

1 round on copper, gold, silver, emeralds and phosphates projects (2021)



**ESMERALDS**

2 rounds on emerald business (2021)



- Online registration and list consultation
- Certificates of origin / production declarations to prove the origin of minerals
- Authorized mineral traders

# RUCOM

<https://www.anm.gov.co/?q=Rucom>

Consist in a control mechanism administered by the National Mining Agency, supported by a technological platform

Certification for natural or legal persons that commercialize, consume or benefit minerals in the national territory

Provides greater transparency and competitiveness to the mineral commercialization activity in Colombia



# Integral mining management system - SIGM

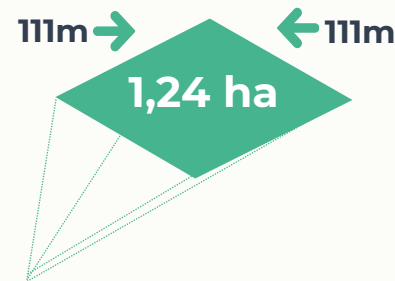


Technological platform with a dynamic and updated geographic database, to settle, follow up and efficiently manage proposals for concession contracts, mining titles and any other process

<https://annamineria.anm.gov.co/>

## MINING GRID

Law 1753 of 2015 (National Development Plan 2014-2018) and Res. 504 of 2018 Objective: to organize and divide Colombian territory into grids, direct access to information on the country's mining resources, availability, geographical, environmental and social conditions



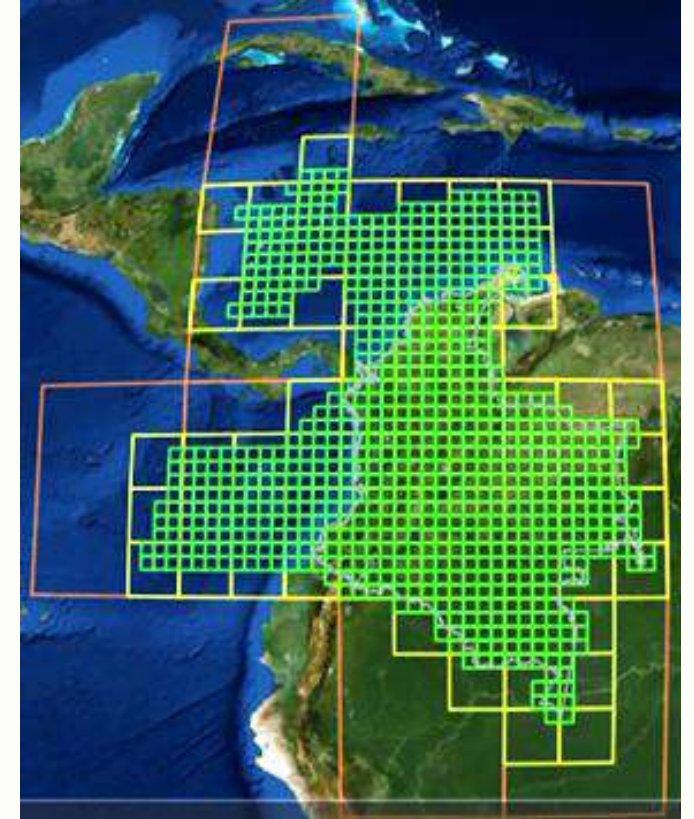
### Center of the Earth



One cell in the mining grid is roughly equivalent to:  
 $111m * 111m = 1.24$  hectares.



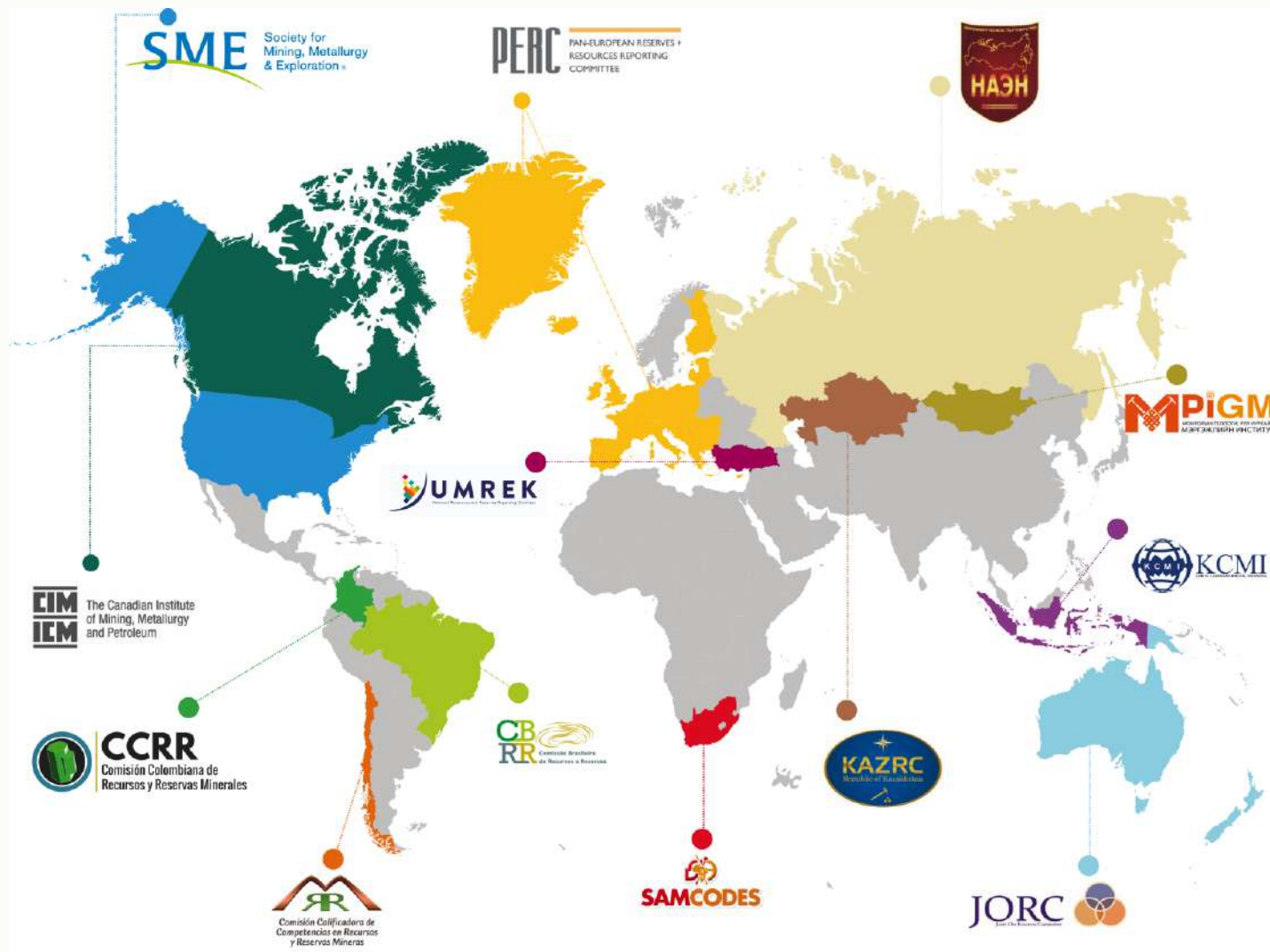
A unit of cartographic measurement determined by a **regular, predefined and standardized** grid or mesh for granting mining rights.



-  **Not available**  
They correspond to: areas excluded from mining, occupied by current titles or applications or special areas with this classification.
-  **Available from conditional form**  
They correspond to: restricted mining areas  
They have conditional availability
-  **Available**  
Free areas; that is, areas that can be contracted



# ECRR - A standard for Colombia and investors







# NATIONAL MINING AGENCY

[www.anm.gov.co](http://www.anm.gov.co)  
[mineriaencolombia.anm.gov.co](http://mineriaencolombia.anm.gov.co)  
[promocion@anm.gov.co](mailto:promocion@anm.gov.co)



**MINES &  
BUSINESS**  
A WINDOW FOR OPPORTUNITIES

